— DVR —

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This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

NOTE: This equipment has been tested and found to comply with the limits for a class digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Notice: Ghosting or fractured images may occur on the screen when there is a suddenly surge or lightning stroke which cause damage on IC in the DVRs.

Table of Contents

Chapter 1 LIVE OPERATIONS 5
Chapter 2 MAIN MENU SETUP 7
2-1 Auto Sequential 10
2-2 Backup 11
2-2.1 Selection 11
2-2.2 Select Backup Device 12
2-3 Configure 13
2-4 Time Search 13
2-5 System Logs 16
2-5.1 Search Criteria 17
2-6 PTZ Operation 18
2-7 Zoom 20
2-8 SPOT 20
2-9 PIP 21
2-10 Shortcut toolbar 22
2-10.1 Network stream quality 23
Chapter 3 CONFIGURATION MENU 25
3-1 Record Setup 25
3-1.1 Continuous Record 26
3-1.1.1 Video Settings 26
3-1.1.2 Event Recording 27
3-1.2 Schedule Recording 27
3-1.2.1 Configuration 28
3-1.2.2 Holiday Configuration 28
3-1.3 Network Stream 29
3-2 Event Setup 30
3-2.1 Video Loss 30
3-2.1.1 Configuration 30
3-2.1.2 Event Handling 30
3-2.1.3 Receiver Setup 31
3-2.2 Motioin Detection 31
3-2.2.1 Configuration 31
3-2.2.1.1 Motion Area Setup 32
3-2.2.2 Event Handling 32
3-2.2.3 Receiver Setup 32
3-2.3 Sensor 33
3-2.3.1 Configuration 33
3-2.3.2 Event Handling 33
3-2.3.3 Receiver Setup 33
3-2.4 System 33
3-2.4.1 Receiver Setup 34
3-3 Camera Setup 34
3-3.1 PTZ Setup 35
3-4 Account Setup 35
3-4.1 Administrator 36
3-4.2 Other Users 37
3-4.2.1 Permission 37
3-5 Network Setup 38
3-5.1 Networking Setup 39
3-5.1.1 DHCP Setup 39
3-5.1.2 Static IP Setup 39
3-5.1.3 PPPoE Setup 40
3-5.1.4 3G Setup 40
3-5.2 HTTP Setup 41

3-5.3 DDNS Setup 41
3-5.4 NTP Setup 42
3-5.5 Mail Setup 43
3-6 Storage Setup 43
3-6.1 HDD Setup 43
3-6.2 USB Flash Derive Setup 44
3-6.3 DVD-RW Setup 44
3-7 System Setup 45
3-7.1 Auto Lock 45
3-7.2 Auto Reboot 45
3-7.3 Date/Time Setup 46
3-7.3.1 Timezone 46
3-7.3.2 Daylight Saving Time Setup 47
3-7.3.3 Change Date and Time 47
3-7.4 Monitor Setup 47
3-7.5 Input Setup 48
3-7.5.1 Remote Control Setup 48
3-7.5.2 Panel Setup 49
3-7.5.3 Mouse Setup 49
3-7.5.4 PTZ Keyboard Setup 50
3-7.5.5 Touch Screen Setup 50
3-7.6 Utility Setup 51
3-7.6.1 Export Configuration 51
3-7.6.2 Import Configuration 52
3-7.6.3 Reset Configuration 54
3-7.6.4 Export Logs 54
3-7.6.5 Clear Logs 55
3-7.6.6 Upgrade Firmware 56
3-8 System Information 57
3-8.1 DVR Information 57
3-8.2 Network Information 57
3-8.3 HDD Information 57
3-8.4 S.M.A.R.T Information 58
Chapter 4 REMOTE SOFTWARE INSTALLATION and SETUP 59
4-1 Application Software Connection 59
4-2 IE Connection 61
4-3 AP Software and IE Connection Operation 63

Note： The number of channels, sensors, relays, and split screen, and the resolution in the following figures are for reference. The actual screen output may be different by different models.

Chapter 1 LIVE OPERATIONS

In the live mode, you may monitor all channels of the DVR, listen to live audio from cameras, and configure the DVR. The DVR can support 4:3 and 16:9 aspect ratios of the screen layout. There is a shortcut toolbar on the top of the screen for users to logout, to access system information, to change scrren aspect ratio, to make the DVR window full-screen, and to configure network stream quality. In the 16:9 mode, there are two major panes, the configuration menu and channel pane for video of channels. In the 4:3 mode, a user may access the configuration pane by right-clicking the mouse on the screen splits and a channel status pane will appear when the mouse cursor moves to the botoom of the screen.

16：9 diplay - Operation screen

4：3 display - Operation screen

Table 1-1 Icon description in live mode

Icon	Description
	Recording of a channel is activated.
	Live audio of a channel is activated.
	Live audio of a channel is not activated.
	Video signal of a channel is available.
	Event recording of a channel is active in this channel.
	Motion detection of a channel is triggered.
	Alarm is triggered of a channel. The number of available alarms depends on models.
	Alarm is not triggered of a channel.
	The channel video-loss alarm of a channel has been triggered.
	USB device has been detected.
	DVD device has been detected.
	Network connection is available
	Network connection is not available
	Displays the current user
	Displays the current disk space and usage. (The figure shows 99% of the disk space has been used, and 1% is available.). The current disk temperature is also shown.
	Each channel shows the time stamp for local playback, remote live, remote playback, and backuped-video.

Chapter 2 MAIN MENU SETUP

To enter the main menu and set up a DVR, log-in account and user password are required. The default password of the administrator is “**123456**”. Please check the “Account Setup” for management of other log-in users.

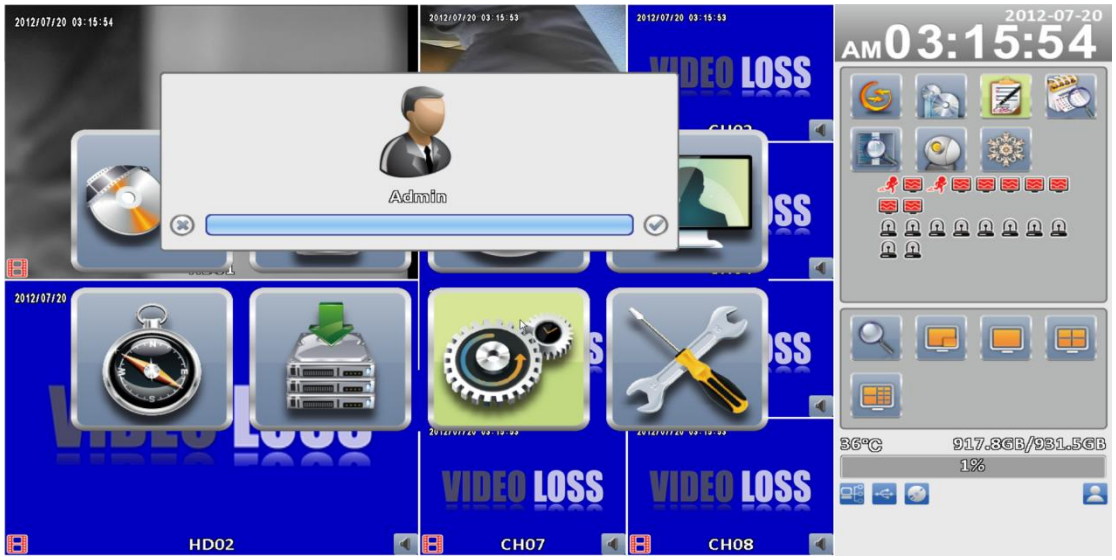


Table 2-1 Definition of keys of virtual keyboard

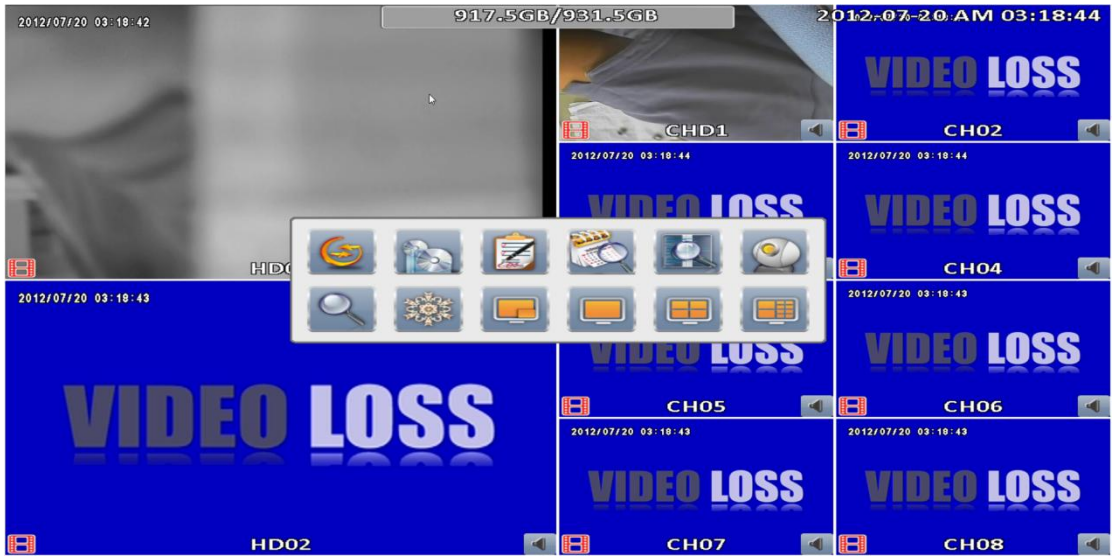
Icon	Description
/	Switch between capital letters and lower-case letters.
.?123 / ABC	Switch between numbers and letters
	Delete the last character。
	Enter to verify the password. The DVR shows the setup menu, if the password is accepted.
	Space key

Table 2-2 Available keys on the remote control in the main menu mode

Item	Description
◄ ►	Switch to previous or next options of an item
▲ ▼	Switch to different items
MENU	Save setup and back to the LIVE mode
ESC	Back to upper level of menu without saving
ENTER	Enter the menu, or display virtual keyboard

There are icons within the configuration pane on the live mode to operate different features of the DVR. The configuration pane is always on the left or right side of the screen in the 16:9 mode and can to be evoked by right-click in the 4:3 mode.

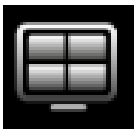
16:9 display, the main menu is on the right side of the screen

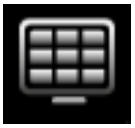
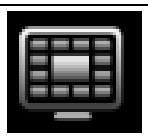
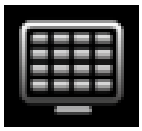


4:3 display, right-click on the screen to evoke the main menu.[1]

[1] Icons may be slightly different by different models

Table 2- 3 Description of icons

Icon	Description
	Evoke the auto sequential menu
	Envoke the backup menu to backup video data from DVR HDD.
	Envoke the configuration menu to access recording settings, event settings, camera settings, account settings, network settings, storage settings, system configuration, and information
	Envoke the time search menu to choose a specific time of the recorded video to playback
	Envoke the event search menu to access the list of events recorded by the DVR. The event list will show the event occurrence time, event category, channel events, and other information.
	Envoke the PTZ mode
	Envoke the Zoom-in function. The DVR supports zoom-in from 2x to 8x digital zoom
	Envoke image freeze function
	Disable image freeze function
	Enable/Disable PIP
	Switch to single split
	Switch to 4-split display

	Switch to 9-split display
	Switch to 13-split display
	Switch to 16-split display

2-1 Auto Sequential

16:9 display

Item	Description
Interval	The time interval between each channel display
Single Screen Division	The DVR automatically switches between channels with designatd interval. The DVR shows each channel in a single-split mode.
Quad-Screen Division	The DVR automatically switches between channels with designatd interval. The DVR shows channels in 4-split mode.
9-Screen Division[2]	The DVR automatically switches between channels with designatd interval. The DVR shows channels in 9-split mode.
10-Screen Division[2]	The DVR automatically switches between channels with designatd interval. The DVR shows channels in 10-split mode.
13-Screen Division[2]	The DVR automatically switches between channels with designatd interval. The DVR shows channels in 13-split mode.
16-Screen Division[2]	The DVR automatically switches between channels with designatd interval. The DVR shows channels in 10-split mode.

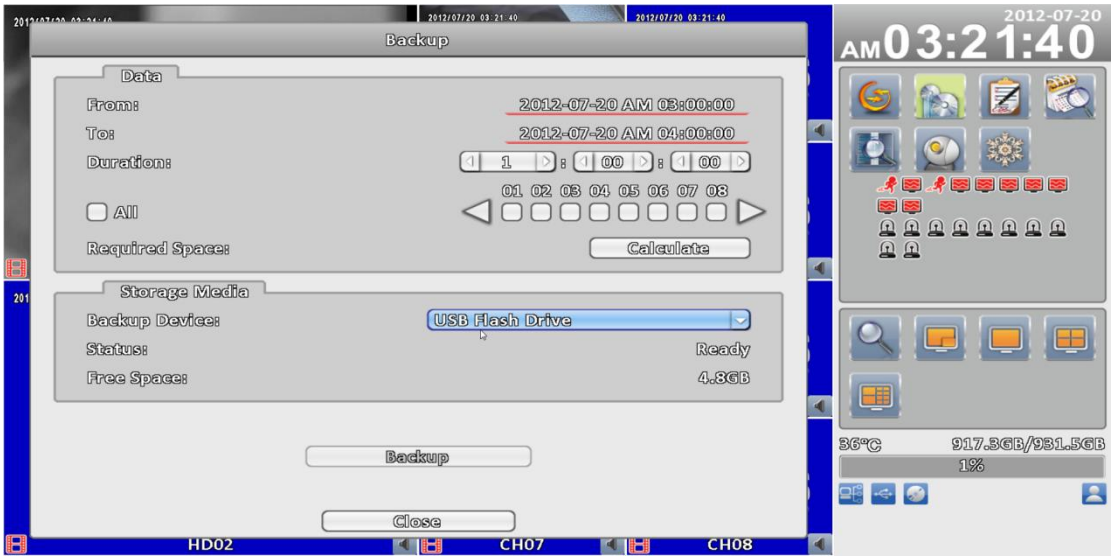
[2] This mode is only available on some models.

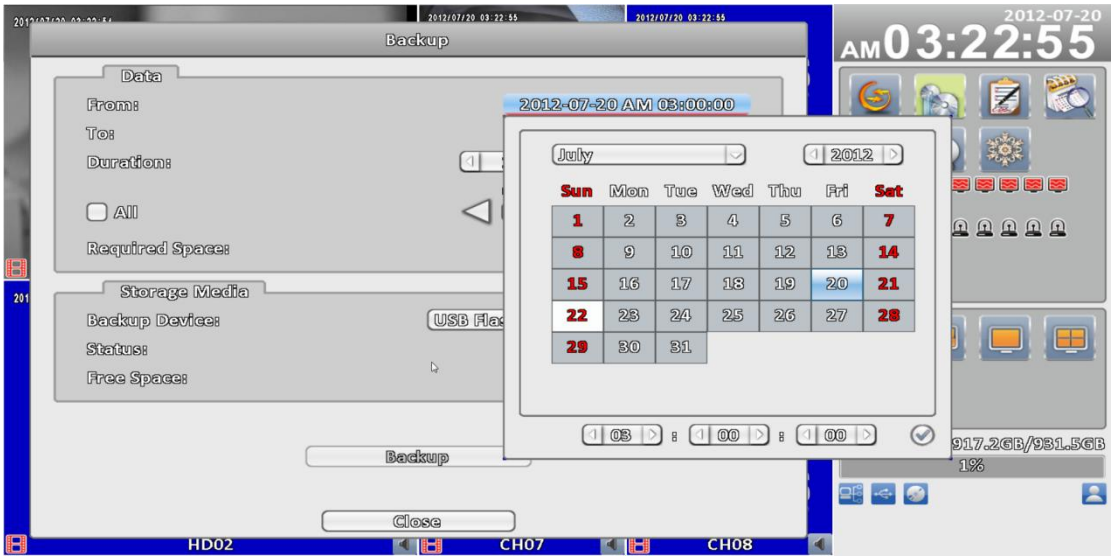
2-2 Backup

User can backup recorded video data of a specified time frame. The DVR can backup video data to either direct-attached storage, such as DVR or USB drive, or remote folder of a PC.

2-2.1 Selection

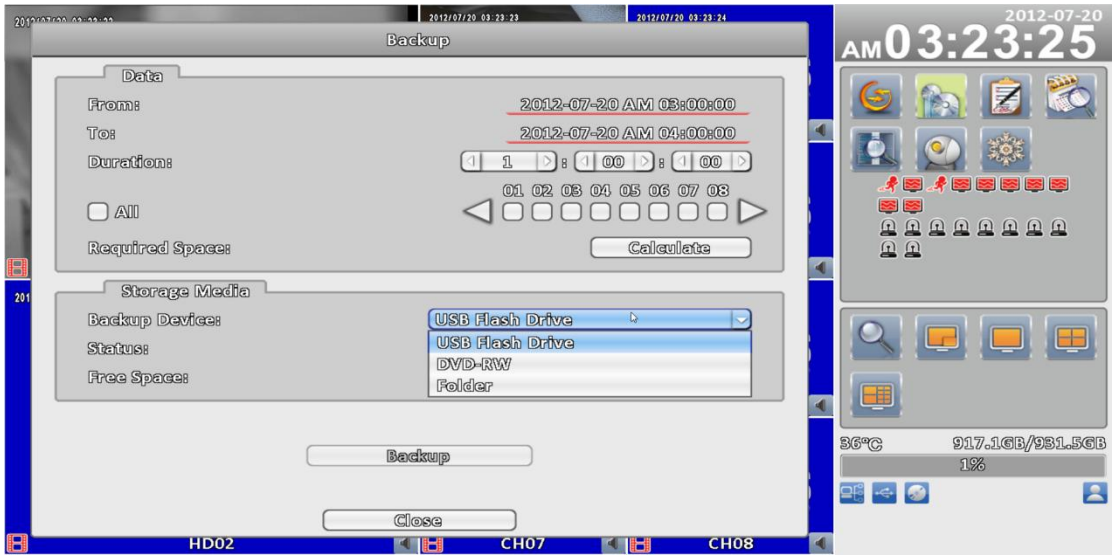
Item	Description
From	The start time of video data to be backed up
To	The end time of video data to be backed up
Duration	The time duration of backup file
All	It can select all channels or clear all selected channels to backup
Required Sapce	Show the size of the backup file





2-2.2 Select Backup Device

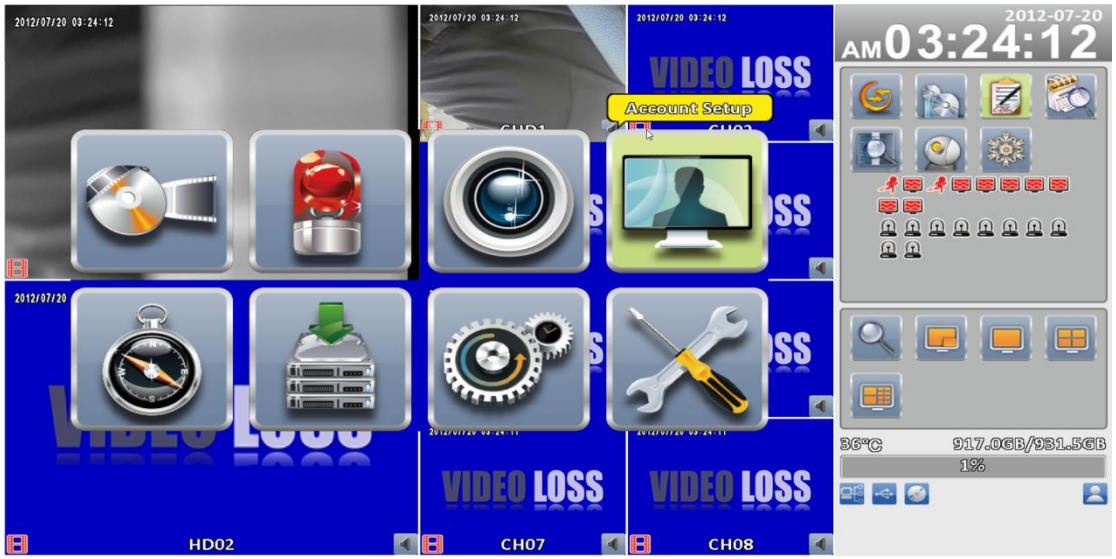
Item	Description
Backup Device	Select target device of backup (USB/DVD-RW/remote folder) 。
Status	The status of target backup device
Free Space	The available space in the target backup device. (not available for remote folder backup)
Backup	Start backup operation. **Be sure to calculate the size of backup file BEFORE operating backup.**



Do not unplug the USB device or turn off the DVR during the backup process to avoid unrecoverable error.

2-3 Configure

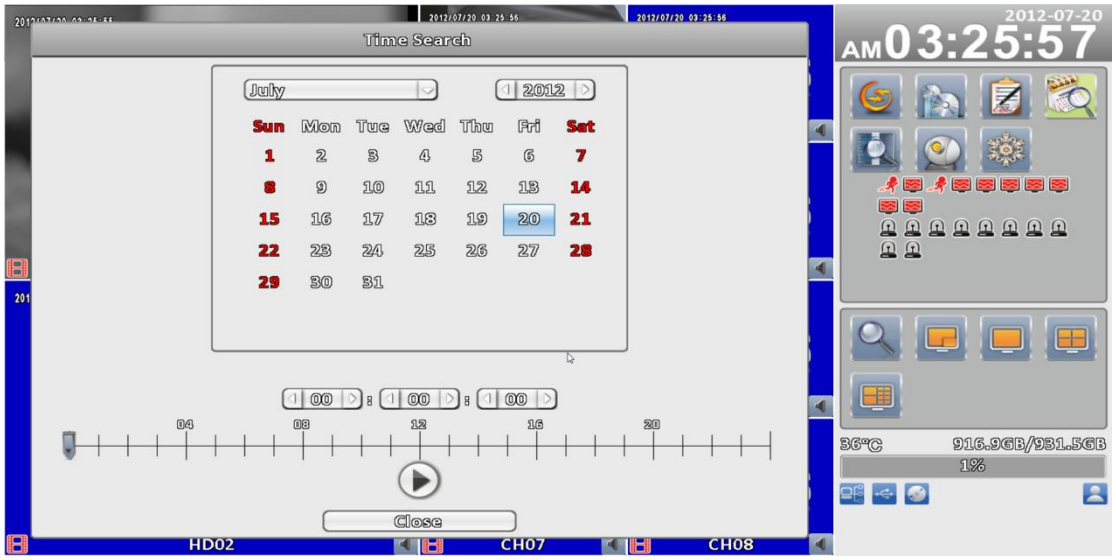
Evoke the configuration menu, recording settings, event settings, camera settings, account settings, network settings, storage settings, system configuration, and information. Please refer to chapter 3 for detail.

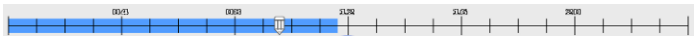


2-4 Time Search

Time search can search for the specific time of recorded data to playback. Note that dates with recording data are marked with a blue box. System will start playing video of specified time slot. Calendar will be shown by using mouse to click on “year” and “month”.

Click “date” to display recording time of that specific date with time bar. You can change time (hour/minute/second) or click on a specific pint of time bar by mouse then press “ok”. DVR will playback the recorded data of the specific time.



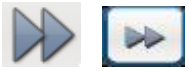
選項	說明
	Playback button, start playback.
	Select playback time by sliding the position of the cursor to the specified time. The timeline scale is 24 hours. The blue chart represents avaible video data.

Playback configuration

Table 2-4 Available keys on the remote control functions in the PLAYBACK mode

Button	Description
ENTER/ MODE	Switch to full screen or multi split display.
MENU / ▮▮	Turn on/off PAUSE.
PLAY	Playback at normal speed.
▲ / SLOW	Playback at slower speed. The speed will be slowed to 1/2, 1/4, 1/8 playback speed, by each pressing of the button till the slowest speed.
◀◀ / ◄	Fast rewind. Each press increases the rewind speed to the next level. There are six speeds: 2x, 4X, 8X, 16x, 32X and 64X.
▶▶ / ►	Fast forward. Each press increases the forward speed to the next level. There are six speeds: 2x, 4X, 8X, 16x, 32X and 64X.
▼ / ■	Stop playback.

Table 2-5 The mouse operation under the PLAYBACK mode.

Icon	Description
	Stop playpack,and go to previous page
	Play
	Pause
	Fast rewind, speed 4x, 8x, 16x, 32x
	Fast forward, speed 4x, 8x, 16x, 32x
	Slow playback, speed 1/2x, 1/4x, 1/8x
	Step playback
	Zoom-in display, 2x~8x digital zoom
	Full screen display
	Quad display
	9 screen display[3]
	10 screen display[3]
	13 screen display[3]

[3] Only available on some models.

	16 screen display[3]

If you want to monitor single channel, please double-click the preferred channel.

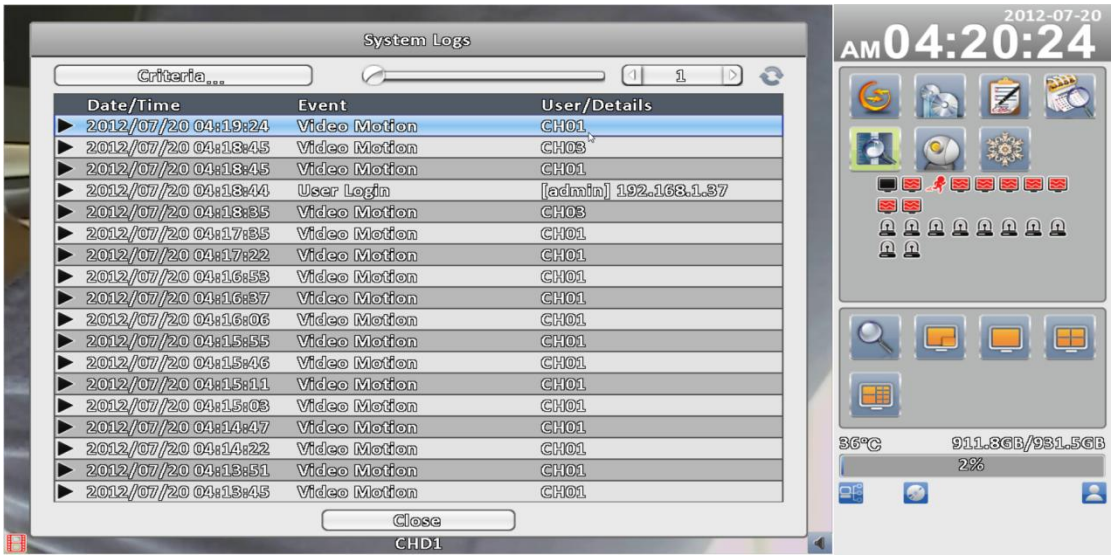
16:9 zoomed playback screen

4:3 zoomed playback screen

2-5 System Logs

The DVR logs events automatically. The event list shows the logged events, event type, event detail, event filter (criteria), and page number of the event list. If the event video is logged, there is a gray video symbol "►" on the lef of the event. Move the cursor to event line and press "ENTER", or double-click mouse

button, DVR playback this record video related to the event.

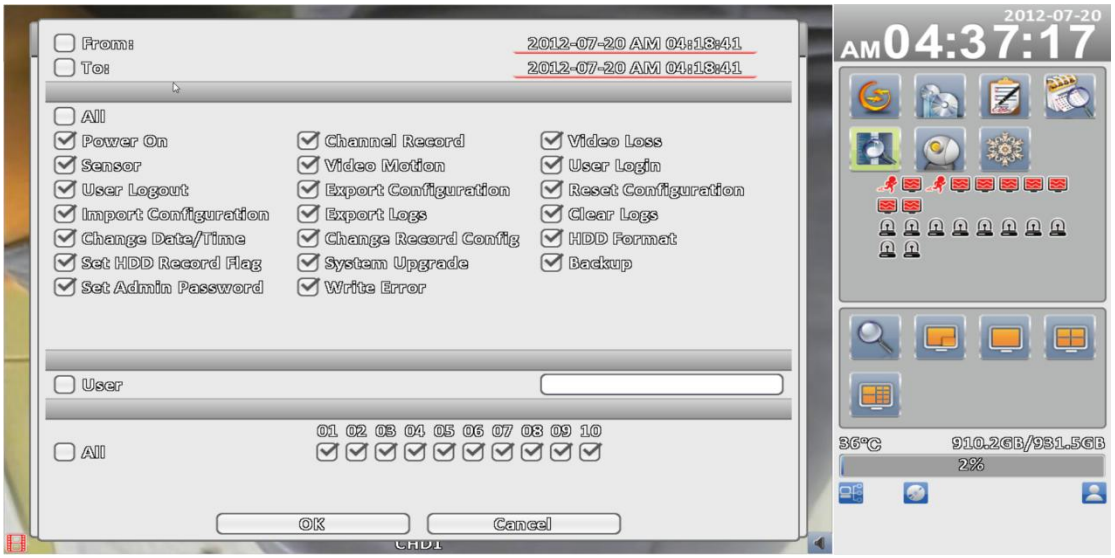


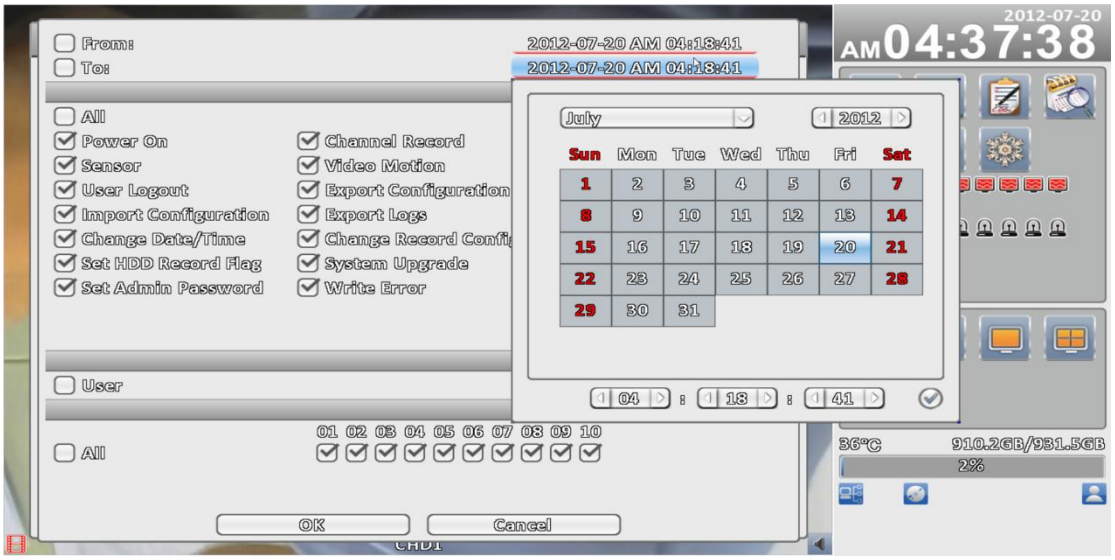
Note: If the hard disk is not installed or has not started recording, the DVR will produce the event list, but the user can not playback the video of a specific event by clicking the event.

Item	Description
Criteria	Set the conditions for the event search
	Slide the slider to choose a page of the event list. The right numbers will show the corresponding page number
	Press left and right arrow keys or enter the page number directly. It will go to the select event page.
	Refresh the event list.

2-5.1 Search Criteria

The number of event is up to thousands, therefore, to set "search criteria" to facilitate rapid classification of events. If the checkbox of start time and end time is checked, the event list will only display the events within the specific time slot. If the user unchecks some events and press the "OK ", the lists will only shows checked events. If you uncheck the channels, the event list will filter out unchecked the channels.





2-6 PTZ Operation

Set up the camera PTZ settings in advance (refer to 3-3.1). Enter the PTZ configuration page, PTZ control panel displays the camera PTZ setting. There is a red cross on the center of the screen. Move the mouse to the red cross and hold down the the left mouse button to the preferred location of the screen. The DVR will move the camera to the preferred place by placing the preferred place to the center of the screen. on the screen to move in any direction. It can control the PTZ camera in the direction.

Table 2-6 Function description

Item	Description
	ZOOM. Press + / - or move the slider to adjust the zoom level.
	FOCUS. Press + / - or move the slider adjust the PTZ focus
	IRIS. Press + / - or move the slider to adjust the PTZ iris
	Press left and right arrow keys to move the camera to the preset locations, and then press to set current camera location to default point. Press to change the camera to next preset point.
Rotate Video	Make the display upside down

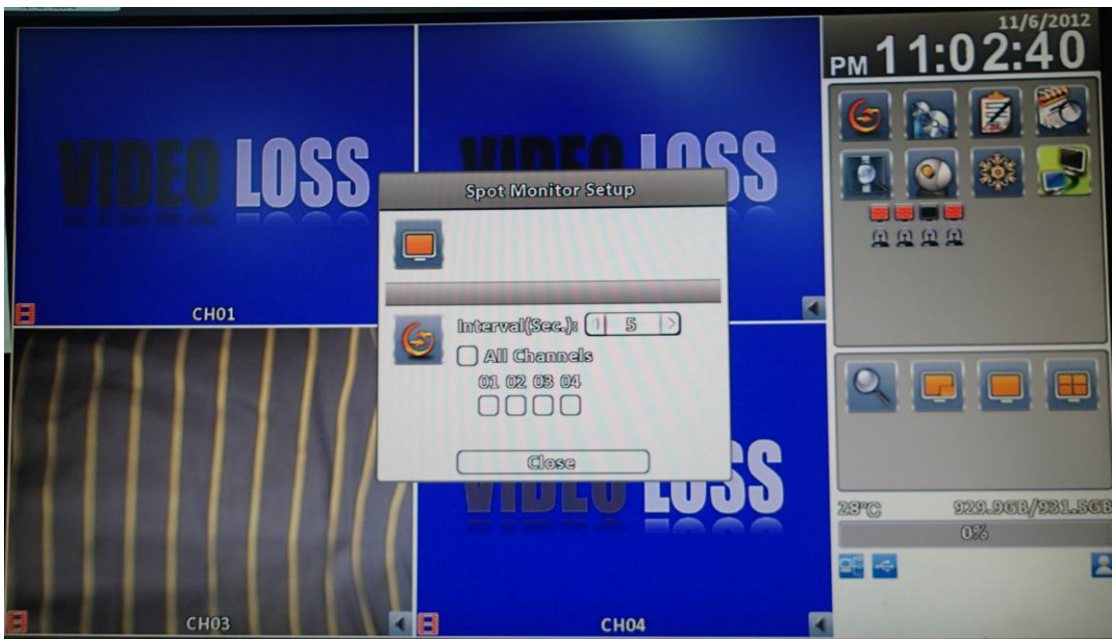
2-7 Zoom

In the digital zoom mode, users may use the mouse to move the red rectangle of the zoom area.

16:9 display zoom

Item	Description
	Zoom-in the area specified by the red rectangle.
	Zoom-out the area specified by the red rectangle.
	Exit zoom mode

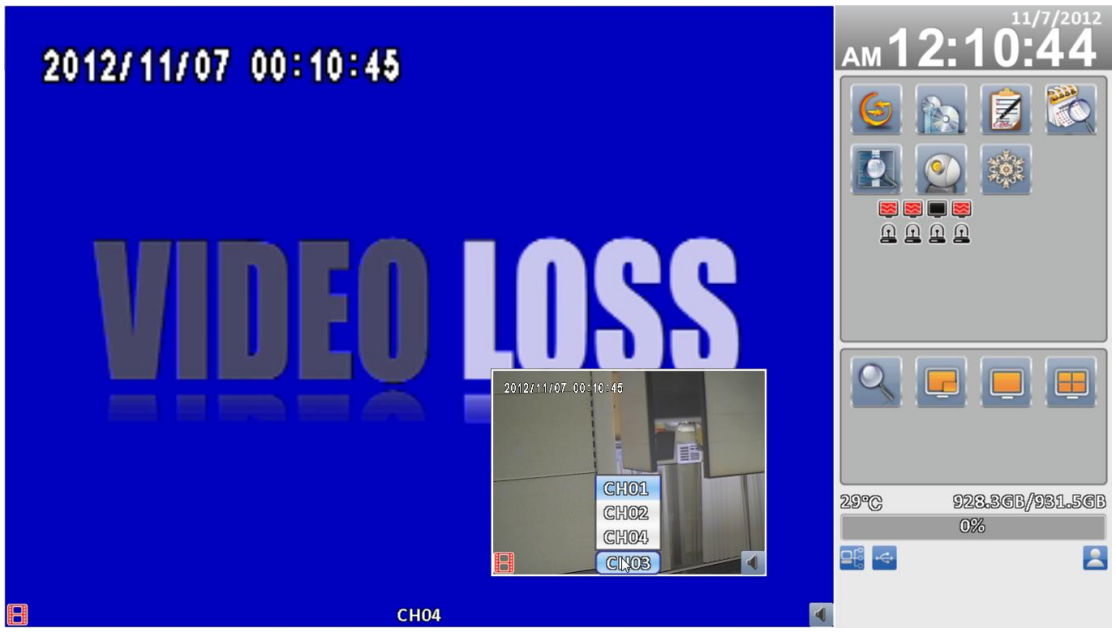
2-8 SPOT



Icon	Description
	Full screen display
Interval	In SPOT mode, the number of seconds to stay

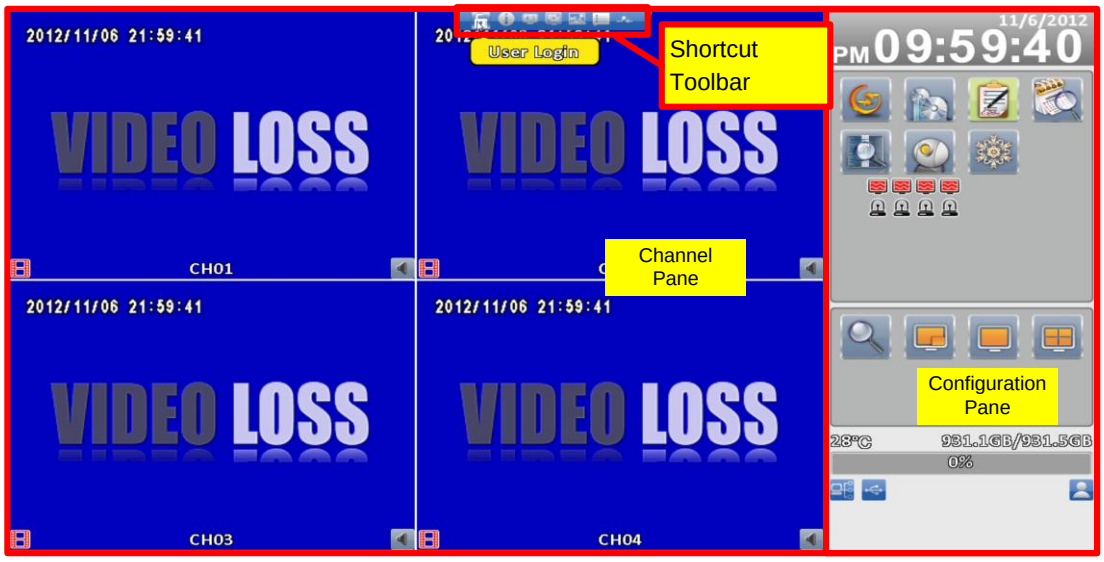
2-9 PIP

Users can monitor two channels in the picture in picture mode. Users may change to channel by click on the CH name to change to another channel.



2-10 Shortcut toolbar

In the live mode, users may move the mouse to the center top of the screen to make the shourtcut toolbar shown.



16：9 display

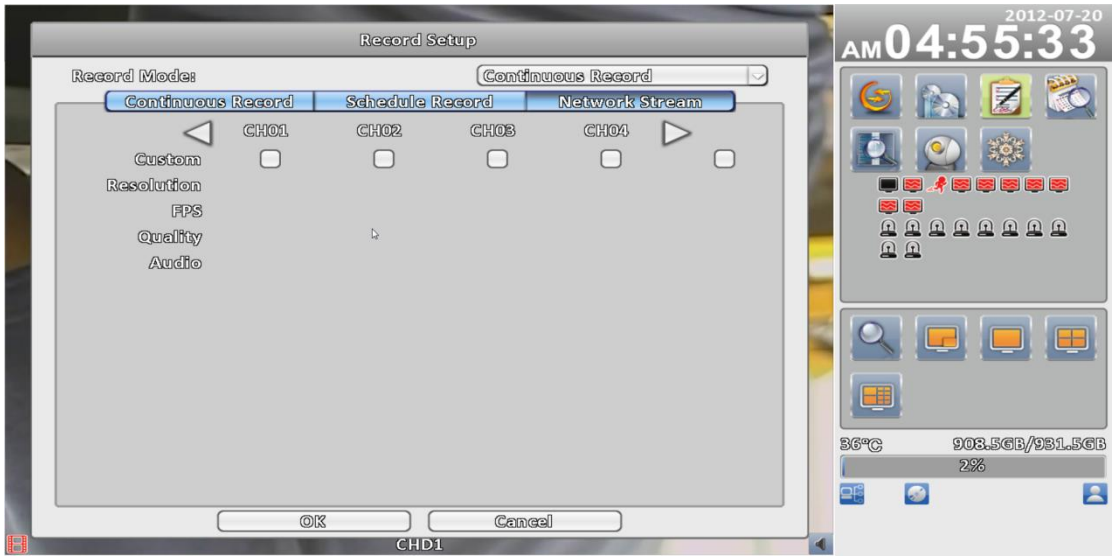
Icon	Description
	User login / out: login or logout the DVR.
	Display system Information: The model name, version, IP address, MAC address, and hard disk information
	Screen aspect-ratio switching: switch between 4:3 / 16:9 display.
	Full screen
	Network stream quality: Adjust the bandwidth quality of remote video.
	The DVR can save the snapshots of the DVR output to designated folder. If the snapshot feature is used from the console, snapshots are stored in the external USB mass storage and will show a warning message is a USB mass storage is not available. Snapshots will be stored in designated directory if the snapshot feature is used remotely.
	Video streams can be stored in the folder designated by iWatchDVR.
	Popup Setup: The user may change the display of the alarm window. Available options are always show, triggered, or hide by mouse ap-proaching the bottom of the screen.
	Users may choose the folder for snapshot or remote video recording.

	The DVR offers users control DVR relay remotely. Users may choose relay status among “on”, “off”, “auto”.

※ Note: Video recording, Full screen, Options, Network stream quality are only for remote use

※ Screenshots, Recording, Options are only available for "iWcatchDVR" , not available on IE 7/8/9.

2-10.1Network stream quality



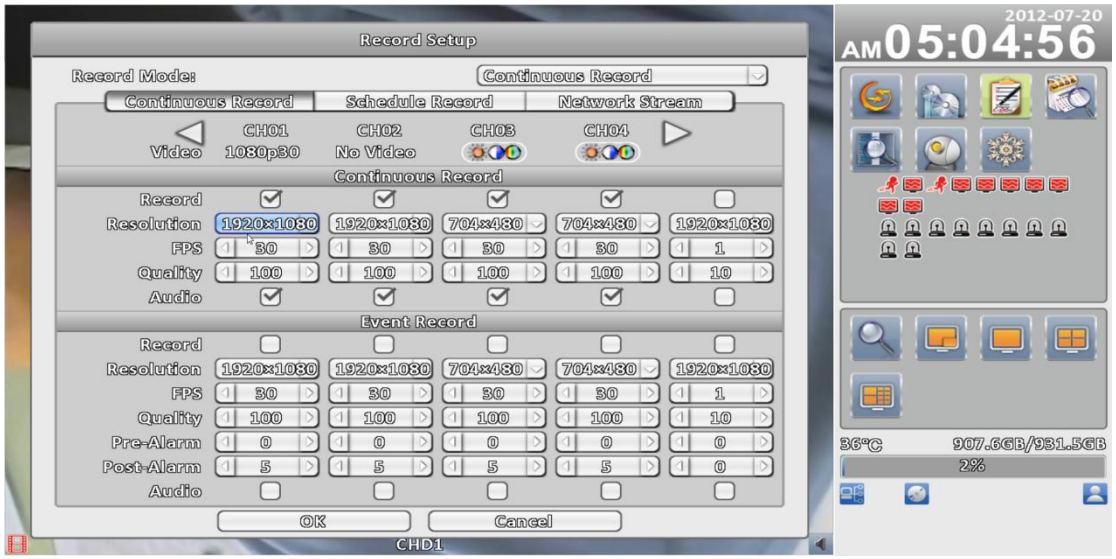
Item	Description
Custom	Users may select custom to enable customization of network streams
Resolution	Resolution of network stream
FPS	How many frames per second.
Quality	Quality factor of the network stream
Audio	Mix audio into network streams.

※ **Video fluency: depends on the network environment**

Chapter 3 CONFIGURATION MENU

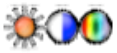
*PS. The initialization of new-installed HD is required before recording, please refer to "**UTILITY SETUP**" for detail.*

3-1 Record Setup



Item	Description
Record Mode	Continuous Record/ Schedule Record/ Stop Record

3-1.1 Continuous Record

Item	Description
Video	Click  icon, it will go to the video setting menu of this channel (below). In settings menu, press to save, press to go back to the original video settings menu
Record	Enable/Disable recording for this channel
Resoultion	Recording resolution selection NTSC: 352x240、704x240、704x480 PAL: 352x288、704x288、704x576
FPS	Select recording frame rate, from 1 to 30
Quality	Recording quality, from 10 to 100. The larger number means the better quality
Audio	Enable/Disable recording audio

3-1.1.1 Video Settings

16:9 display video settings

Item	Description
Sharpness	Adjust sharpness from 0 to 255
Brightness	Adjust brightness from 0 to 255
Contrast	Adjust contrast from 0 to 255

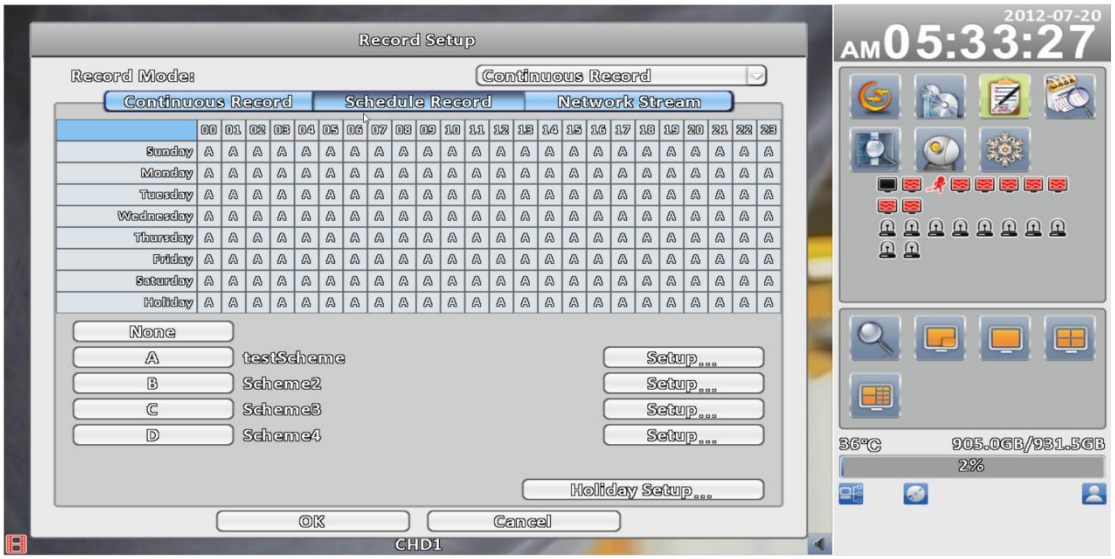
Saturation	Adjust saturation from 0 to 255
Hue	Adjust hue from 0 to 255
Volume	Adjust voume from 0 to 255

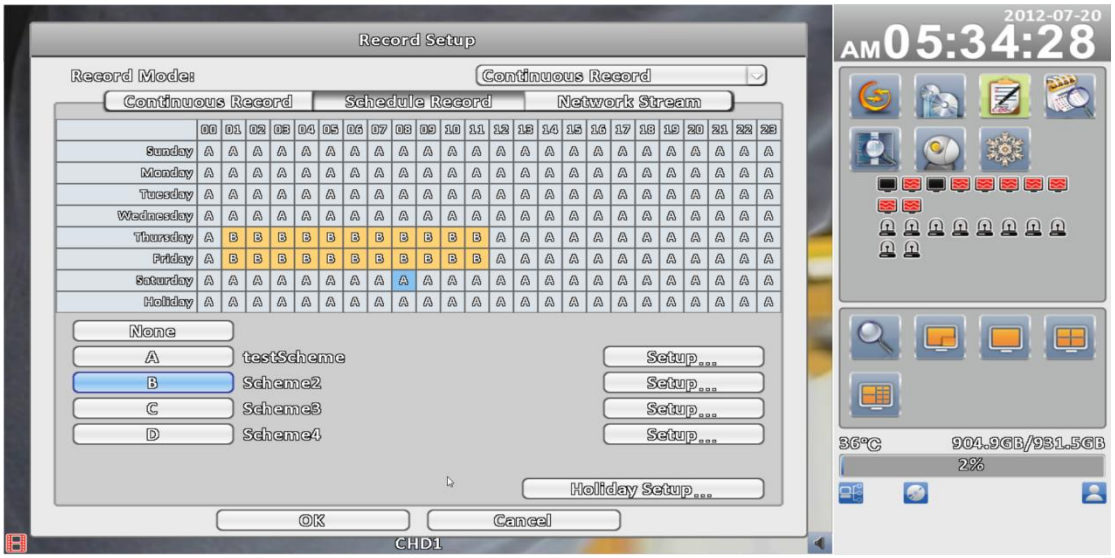
3-1.1.2 Event Recording

Item	Description
Record	Enable/Disable recording of a channel
Resoultion	Recording resolution selection NTSC: 352x240、704x240、704x480 PAL: 352x288、704x288、704x576
FPS	Select recording frame rate from 1 to 30
Quality	Recording quality from 10 to 100. The larger number means the better quality
Pre-Alarm	Set the record seconds before the event, from 0 to 5.
Post-Alarm	Set the playback seconds after the event, from 0 to 100
Audio	Enable/Disable audio audio recording of event record of the specified channel.

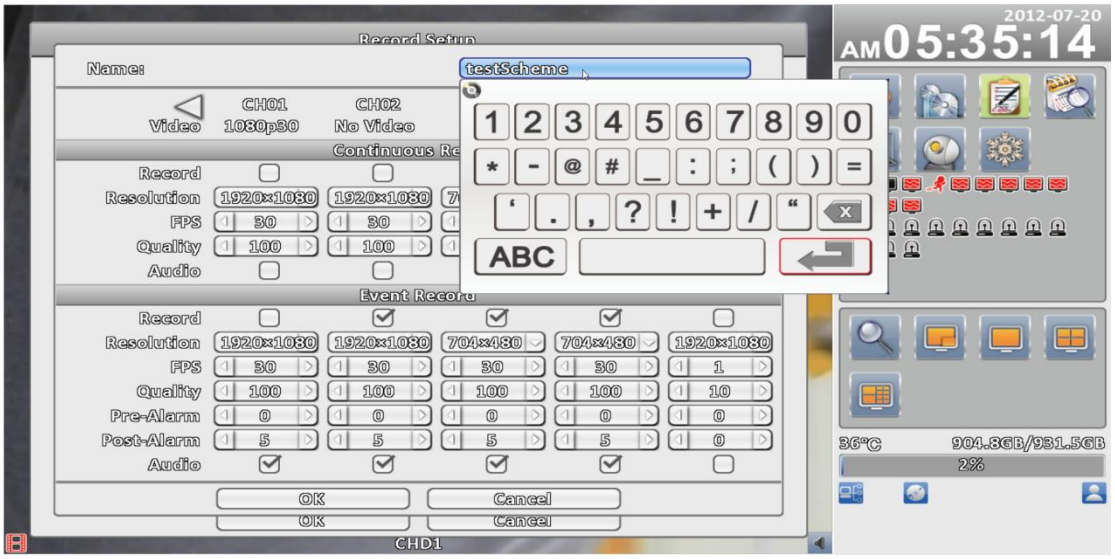
3-1.2 Schedule Recording

Schedule recording can configure recording time by days of a week and hour. With the A, B, C, D four settings, users can set different recording scheme according to different configuration needs. In the day and time grid map, select the schedule time zone, and then press A, B, C, D one of the buttons to specify the video settings.





3-1.2.1 Configuration



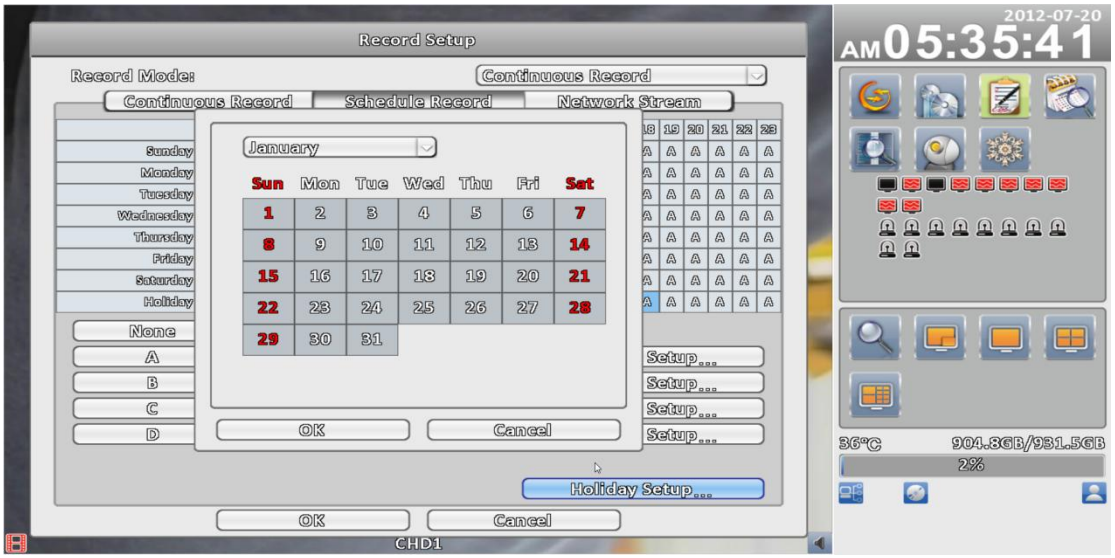
Item	Description
Name	Change the recording name of the channel

For the rest, please refer to 3-1.1 Continuous Record

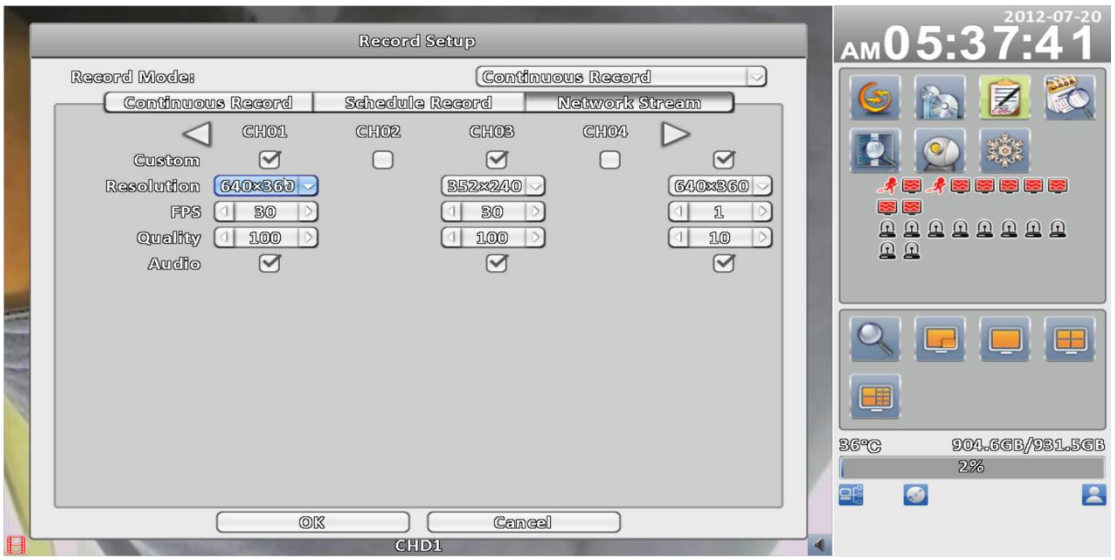
3-1.2.2 Holiday Configuration

The number of holiday is up to 50. When the time comes to the specified holidays, the DVR will start recording according to holiday configuration.

Since holidays are different by different country and region, users can setup holidays according to user needs.



3-1.3 Network Stream



Item	Description
Record	Enable/Disable recording the network stream for this channel
Resoultion	Recording resolution HD Channel: 640x360, 320x180 NTSC for D1 Channel: 352x240, 176x240, 176x120 PAL for D1 channel: 352x288, 176x288, 176x144
FPS	Select recording frame rate from 1 to 30
Quality	Recording quality from 10 to 100. The larger means number the better quality
Audio	Enable/Disable recording audio of the channel

3-2 Event Setup

3-2.1 Video Loss

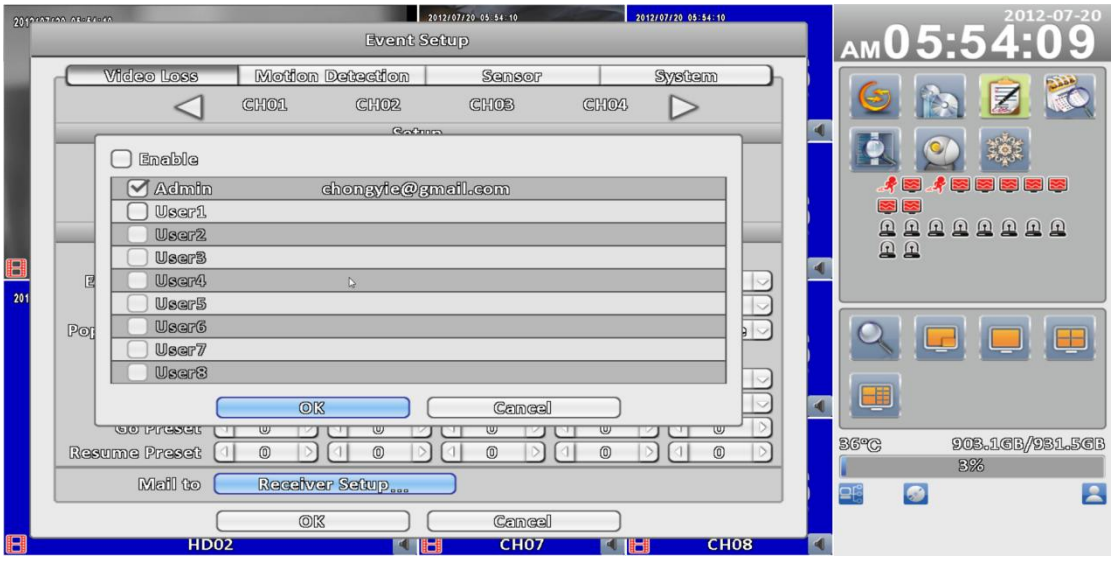
3-2.1.1 Configuration

Item	Description
Enable	Enable/Disable video loss detection function

3-2.1.2 Event Handling

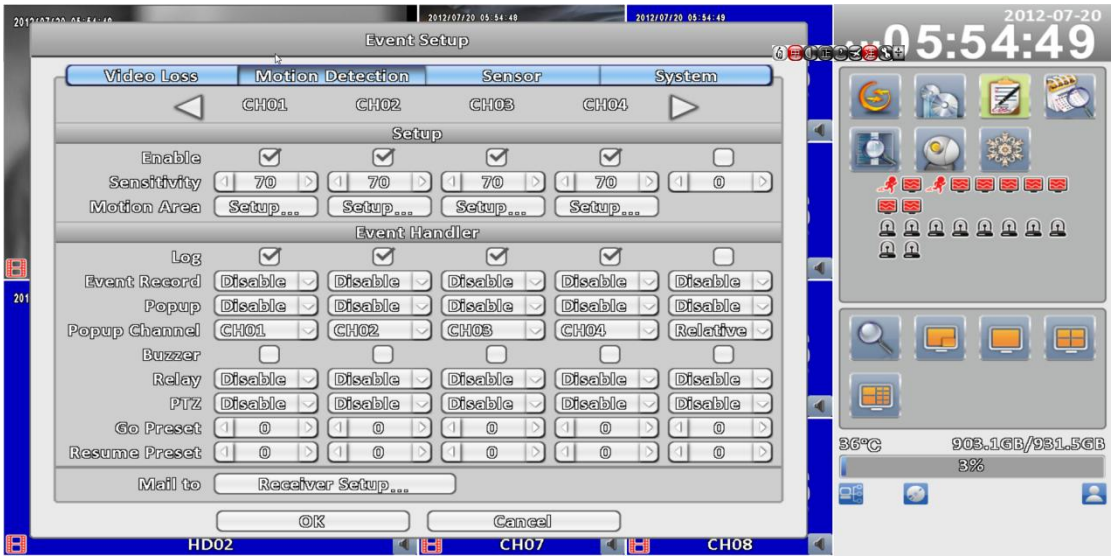
Item	Description
Log	Wirte to event log when the videoloss event happens.
Event Record	Select channel for event recording when event occurs. The video setup corresponds to the "Configuration → Recording Settings → Event Video Recording" (refer to 3-1-1-2 Evnet Record) .
Popup	In the live mode, if video loss of a channel is detected, it will pop up the channel full screen. You can specify a warning window display, 1: the main screen, 2: the second screen.
Popup Channel	When an event occurs, pop up the specified channel.
Buzzer	Specify the DVR behavior of whether to activate the buzzer when an event occurs.
Relay	Specify the DVR behavior of whether to activate the relay when an event occurs.
PTZ	Specify the DVR behavior of whether to change to the PTZ control mode to the specified channel when an event occurs.
Go Preset	Moves the camera to the specified preset point when an event occurs.
Resume Preset	Moves the camera back to the specified preset point when an event is finished.

3-2.1.3 Receiver Setup



Item	Description
Enable	Specify whether the DVR sends e-mail notice to specified users when an event occurs.
Admin / Users	Specifiy the receiver of e-mail notices

3-2.2 Motioin Detection

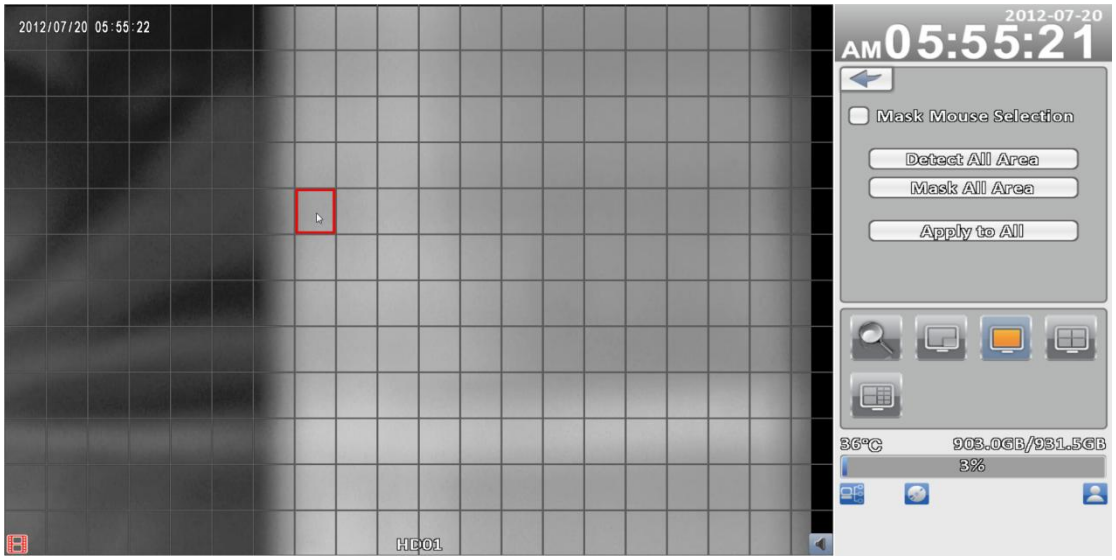


3-2.2.1 Configuration

Item	Description
Enable	Enable/Disable the motion detection function of this channel
Sensitivity	The sensitivity value is from 0 to 100. The higher value means higher sensitivity.
Motion Area	Enter to setup motion detection area

3-2.2.1.1 Motion Area Setup

The motion detection has been divided into 22 x18 grids. The default detection area is full screen. The screen is marked in transparent for detection area and grey for disabled area of motion detection.



16：9 display

Item	Description
Mask Mouse Selection	Switch between “select” and “deselect” for cursor-dragging function
Detect All Area	Select entire screen as detection area.
Mask All Area	Deselect entire detection area.
Apply to All	Apply the current settings to all channels
	To leave and save settings

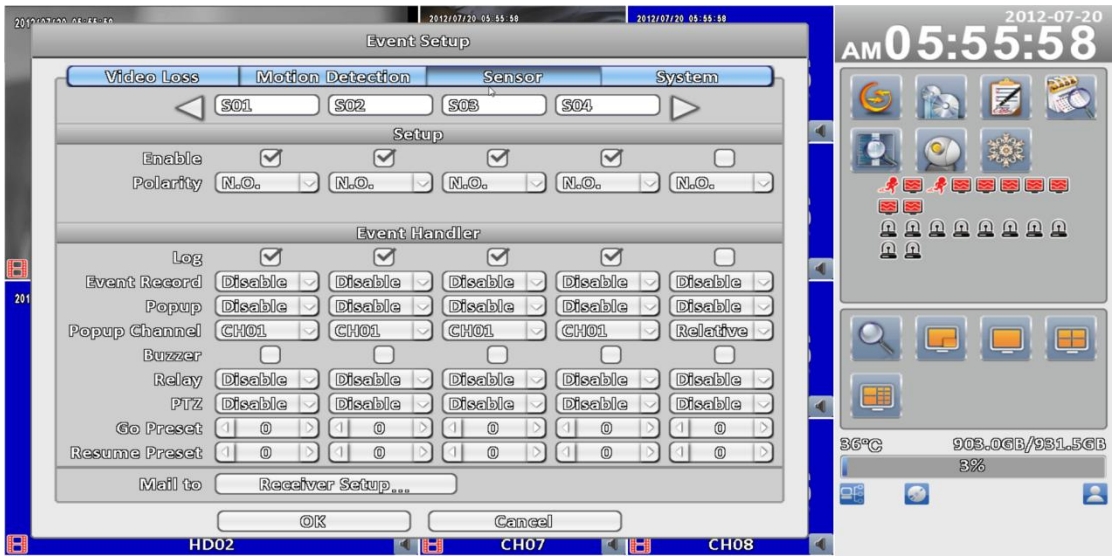
3-2.2.2 Event Handling

Please refer to 3-2.1.2 **Event Handling**

3-2.2.3 Receiver Setup

Please refer to 3-2.1.3 **Receiver Setup**

3-2.3 Sensor



3-2.3.1 Configuration

Item	Description
Enable	Enable/Disable sensor
Polarity	N.C: Sensor has not been triggered. When connected, sensor will be turned on
	N.O: Sensor has been triggered. When connected, sensor status will be turned off

3-2.3.2 Event Handling

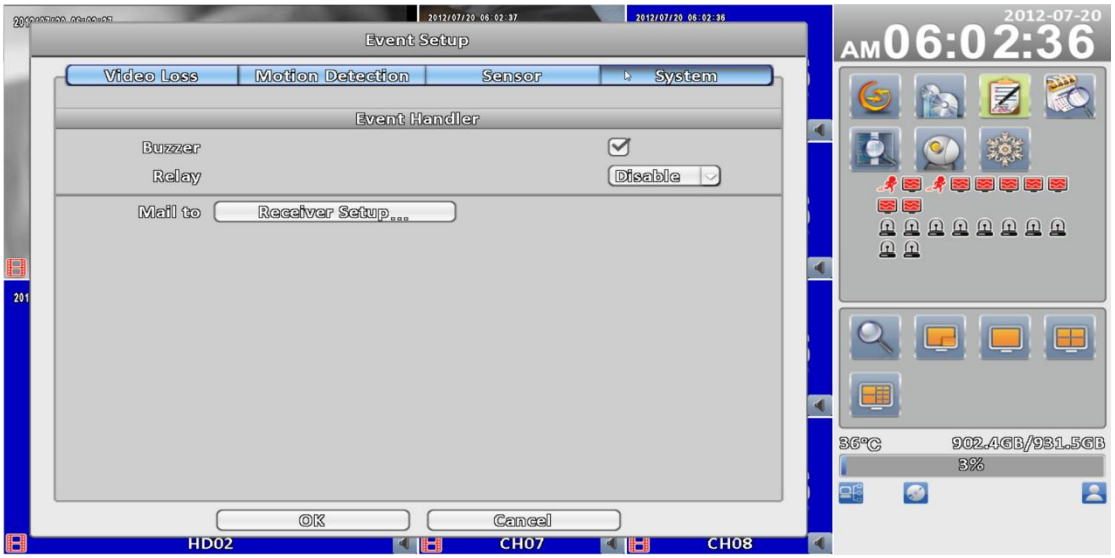
Please refer to 3-2.1.2 **Event Handling**

3-2.3.3 Receiver Setup

Please refer to 3-2.1.3 **Receiver Setup**

3-2.4 System

When the system event occurs, give a notice or warning according to the settings of relay, buzzer, and receiver. If the buzzer box is checked, the buzzer continually beeps for only errors related to the video (such as hard drives can not write or not install the hard drive). The buzzer does not beep when other system events, such as login, log out or boot, etc., occurs.

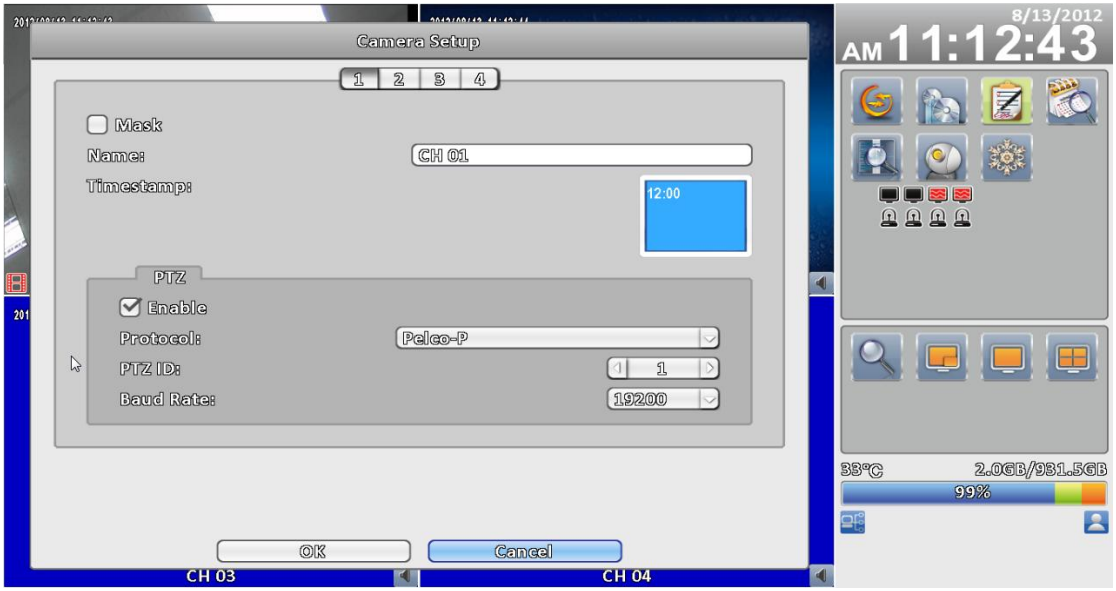


Item	Description
Buzzer	Specify whether the buzzer beeps when a recording error occurs.
Relay	Specify the realy to be envoked when an event occurs.

3-2.4.1 Receiver Setup

Please refer to 3-2.2.3 **Receiver Setup**.

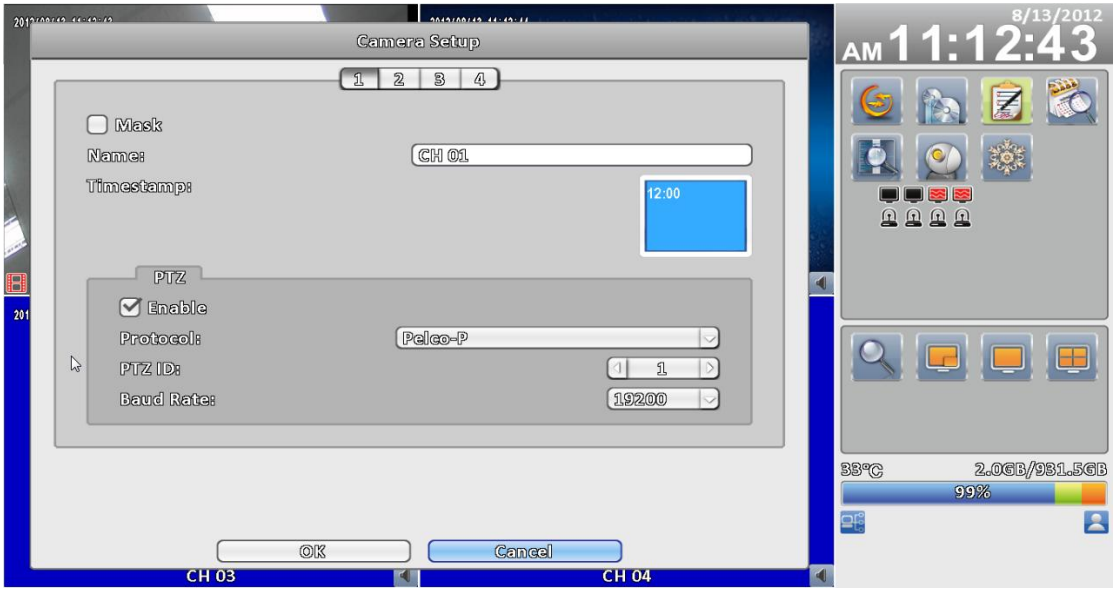
3-3 Camera Setup



Item	Description
Mask	Check the box to Enable/Disable mask function for the camera in the LIVE mode
Name	Channel name

Timestamp	Click on the blue screen to set position of the timestamp.

3-3.1 PTZ Setup



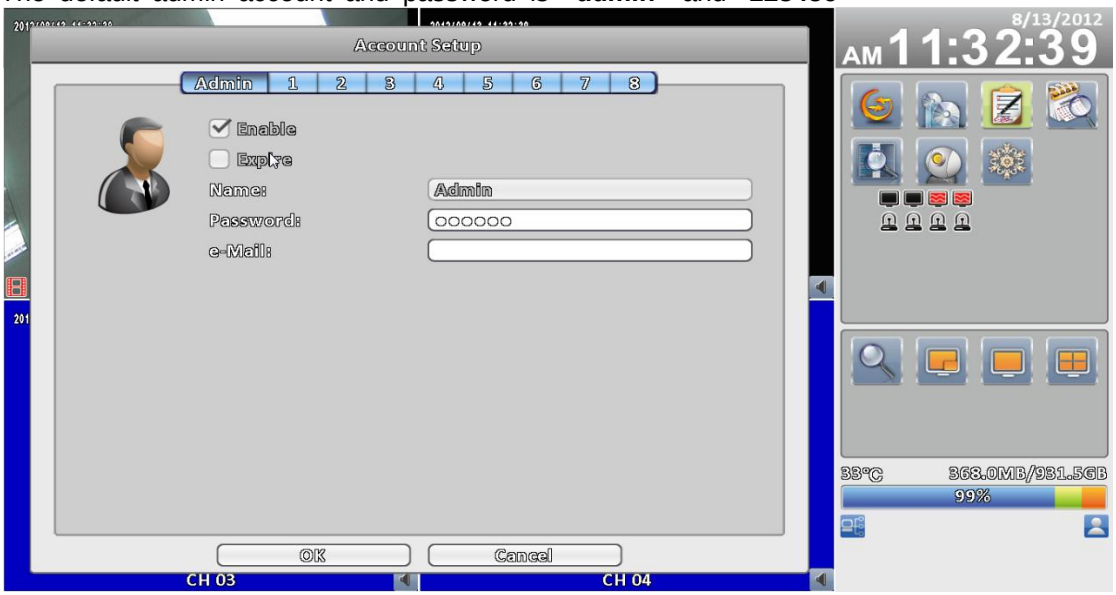
Item	Description
Enable	Click the box to Enable/Disable PTZ function.
Protocol	Set up the protocol of PTZ cam. The supported protocol are: PELCO-D、PELCO-P、Merit LiLin 1、Merit LiLin 2、SAMSUNG、LG-MultixE
PTZ ID	Set up PTZ ID. The valid ID value is from 0 to 255.
Baud Rate	Select Baud Rate of PTZ control protocol from 2400, 4800, 9600,19200

3-4 Account Setup

You can set the user password and permissions of 9 user accounts (1 admin + 8 users). These different accounts gives users different permissions of DVR features.

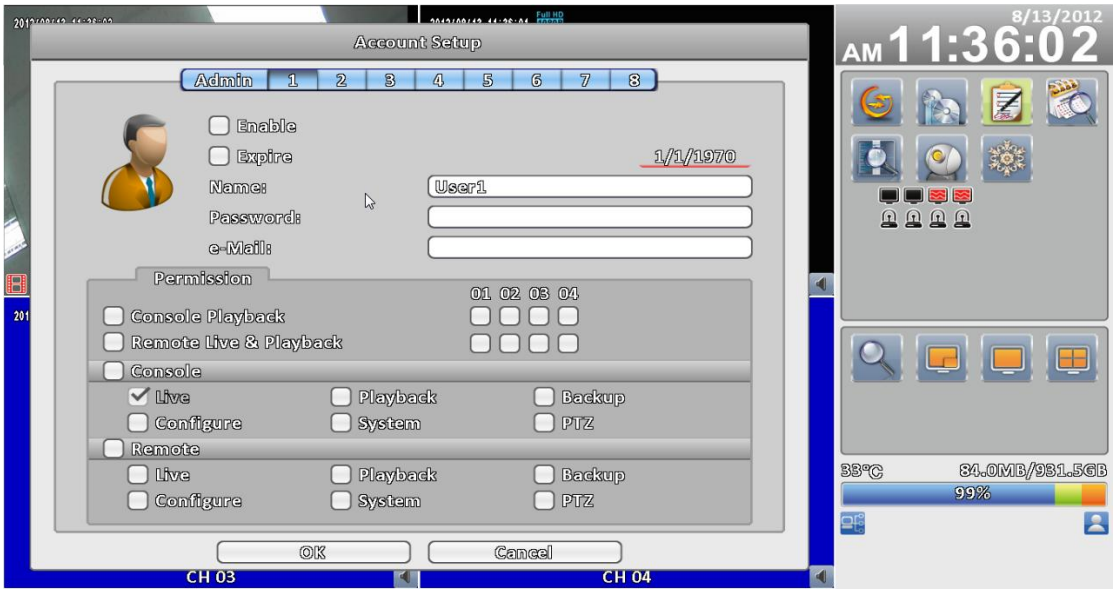
3-4.1 Administrator

The default admin account and password is **“admin”** and “**123456**”



Item	Description
Enable	Check to activate the user’s account.
Expire	Set the expire date of the user account
Name	Set up the username
Password	Set up the password . The password can be mixed of letters and numbers and is case-sensitive.
e-Mail	Set up user email

3-4.2 Other Users



Item	Description
Enable	Check to activate the user's account.
Expire	Set the expiration date of the user account
Name	Set up username
Password	Set up the password . The password can be mixed of letters and numbers and is case-sensitive.
e-Mail	Set up user email

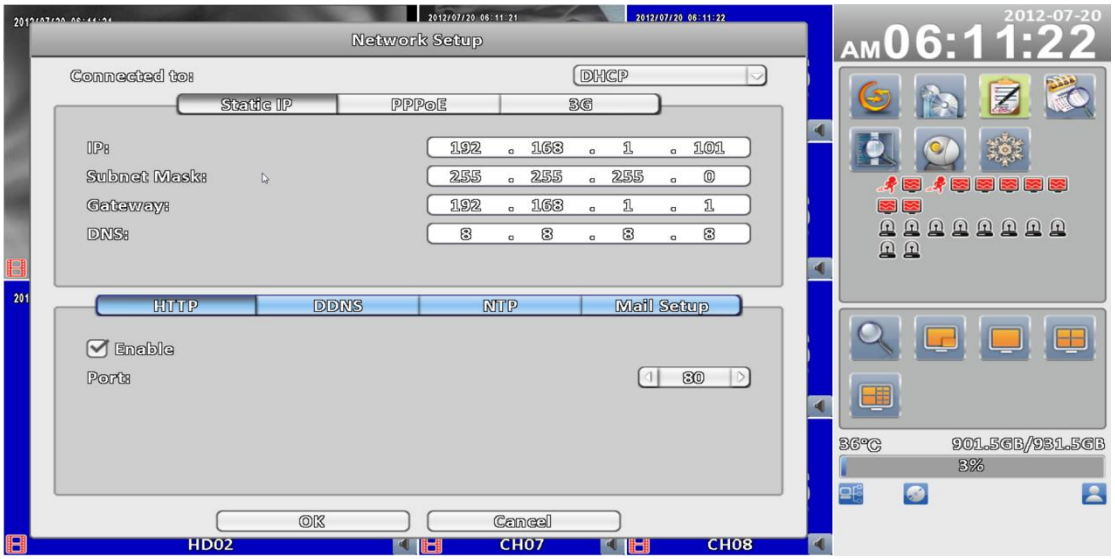
3-4.2.1 Permission

The Account Setup is set to provide individual user role-based permissions, including access to Setup menu, Network operation, PTZ function, Playback, Utility, Backup, Password expiration date and Mask on specific channels while playing back.

Item	Description
Console Playback	Allow the permissions to playback channel in local side
Remote Live & Play-back	Allow the permissions to live monitor/playback channel in remote side
Console	Allows the permissions to operate in local side (Live, Playback, Backup, Configure, System, PTZ)

Remote	Allow the permissions to operate in remote side (Live, Playback, Backup, Configure, System, PTZ)

3-5 Network Setup



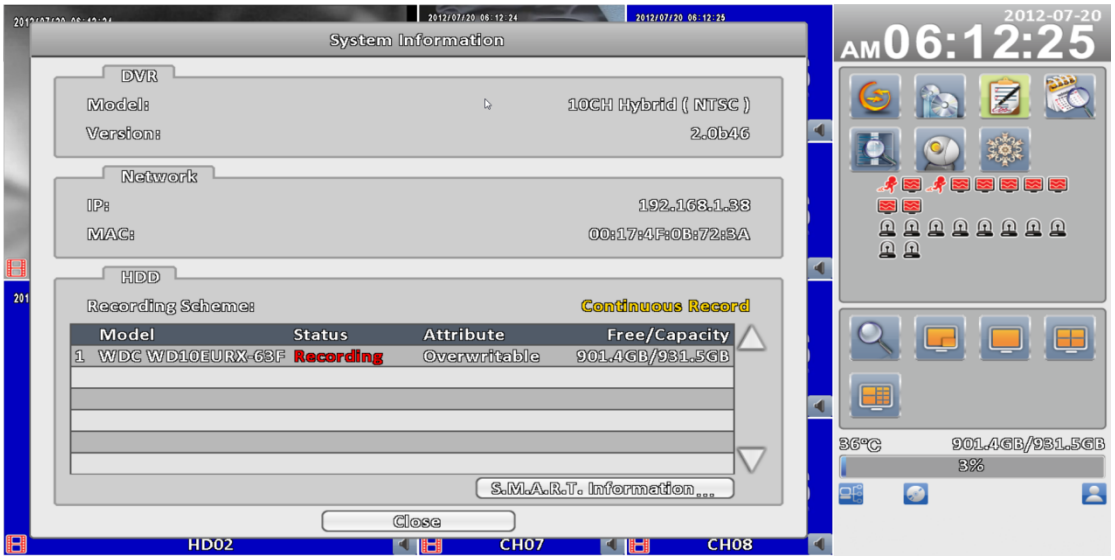
Item	Description
Connected to	Setup the mode for network connection: **(**DHCP、Static IP、PPPoE、3G)
DHCP	The DVR retrieves from a DHCP server automatically.
Static IP	Set up a Static IP address of the DVR.
PPPoE	Set up the username and password for PPPoE connection.
3G Setup	Set up the login configuration of 3G connection
HTTP Setup	Set up the HTTP configuration for remote access.
DDNS	Set up the DDNS configuration.
NTP	Set up the NTP configuration
Mail Setup	Set up the mail sending configuration

3-5.1 Networking Setup

There are three ways to connect to the network.

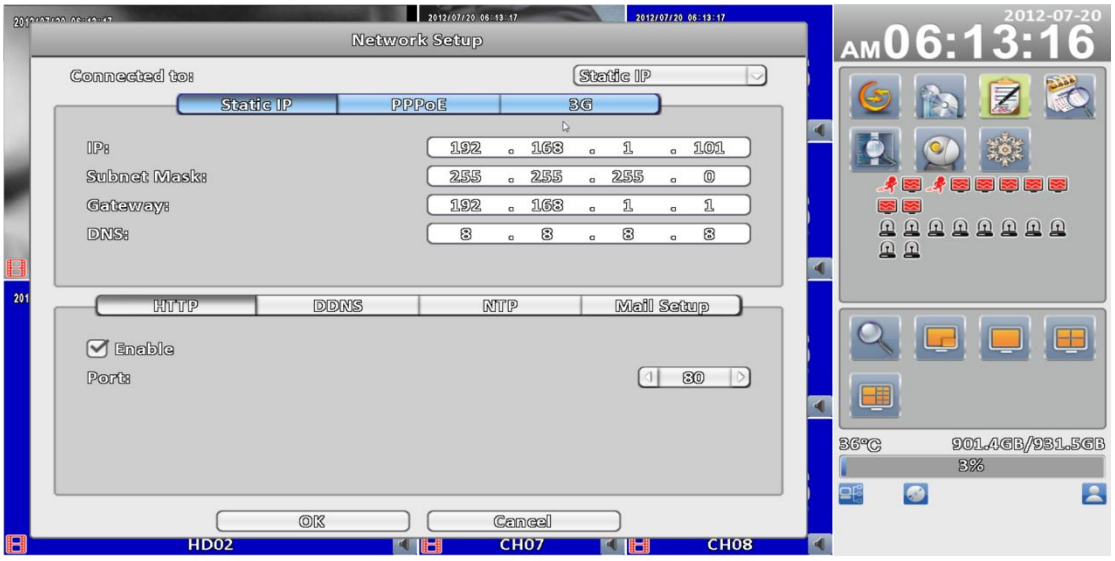
3-5.1.1 DHCP Setup

When DHCP is selected, IP address will be assigned by DHCP server automatically.
Notice: The IP address shown in ths page is not the IP address obtained from the DHCP server.
The IP obtained from the DHCP serveris shown in the System Information Page.



3-5.1.2 Static IP Setup

Setup Static IP for network connection, the following information is required.

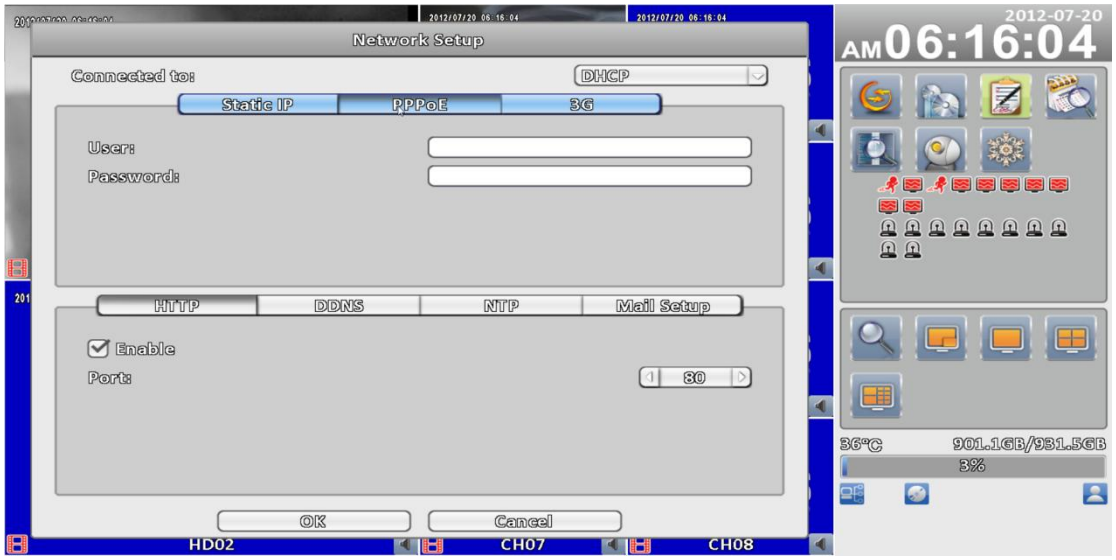


Item	Description
IP	Enter the static IP address provided by ISP
Subnet Mask	Enter IP address of Subnet Mask provided by ISP
Gateway	Enter IP address of the Gateway provided by ISP
DNS	Enter the DNS address provided by ISP.

	(Note: The correct DNS address must be entered for DDNS function).

3-5.1.3 PPPoE Setup

Select PPPoE for network connection, the following information is required.

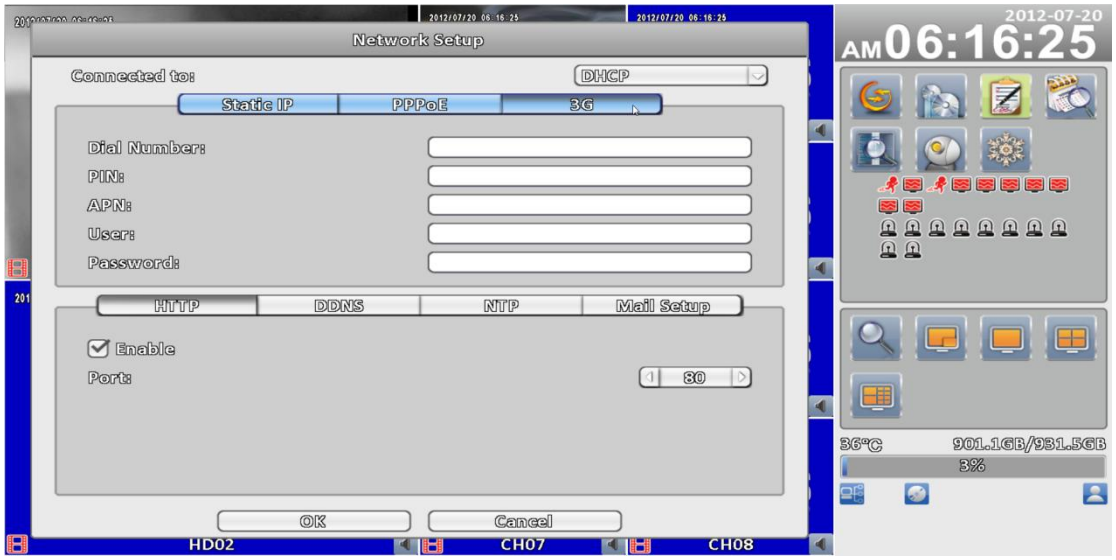


Item	Description
User	Enter user name provided by ISP
Password	Enter password provided by ISP

3-5.1.4 3G Setup

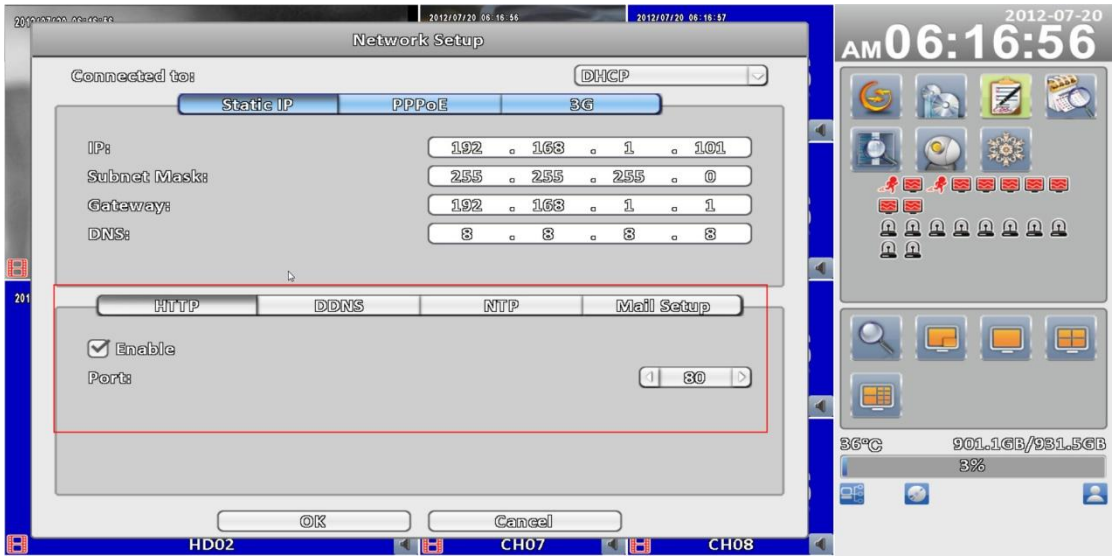
Using the USB 3G dongle to access the network

PS: only specific chip of 3G dongle is supported and the 3G diap-up features may not be compatible to some ISPs.



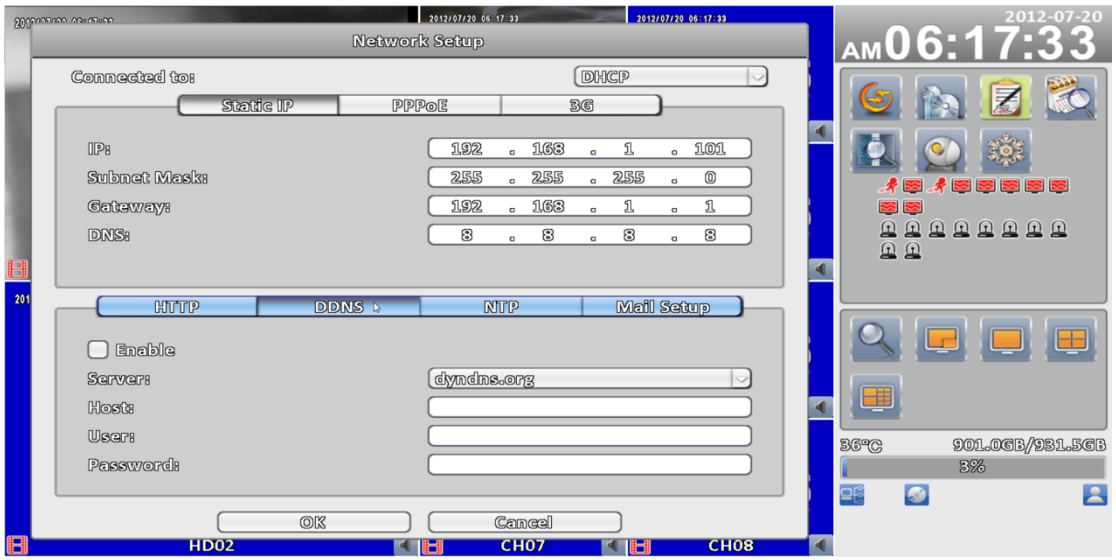
Item	Description
Dial Number	Dial-up Number, offer by the ISP
PIN	Enter SIM card password
APN	Enter ”internet” or other value offered by the ISP.
User	Enter ISP username
Password	Enter ISP password

3-5.2 HTTP Setup



Item	Description
Enable	Check to enable HTTP server. Users can remotely access into the DVR over the network if the HTTP function is activated.
Port	Enter a valid port value from 1 up to 65535. The default value is 80.

3-5.3 DDNS Setup

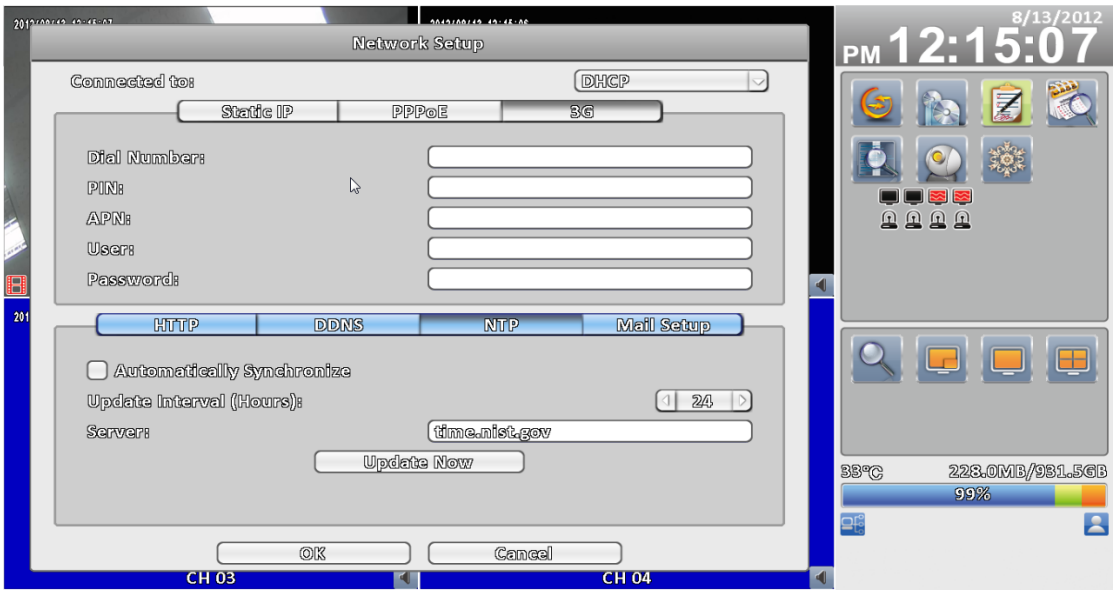


Item	Description
Enable	Enable/disable DDNS function.
Server	Enter the registered DDNS Server: ez- dns.com、i-dvr.net、dyndns.org
Host	Enter the full DDNS address. (Including username + Server) If the user name is h.264 and you choose i-dvr as your server, you should enter: h.264.i-dvr.net
User	Enter user name.
Password	Enter password.

＊For more detailed I-DVR.NET operation instruction, please refer to appendix Ⅰ、Ⅱ

3-5.4 NTP Setup

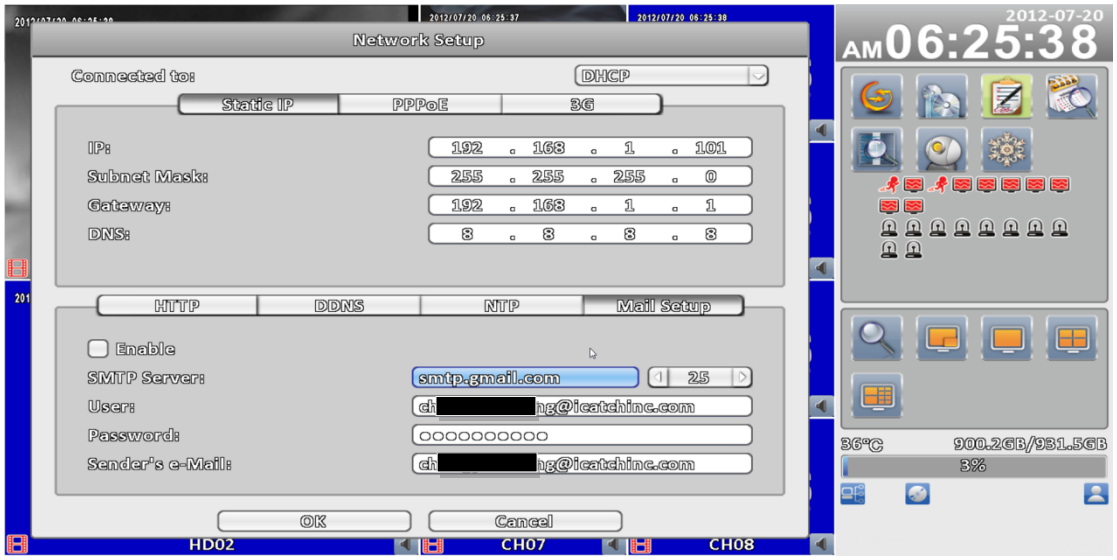
Setup he feature of network time synchronization .



Item	Description
Automatically Synchro-nize	Check to enable DVR automatic synchronization function when rebooting
Update Interval (Hours)	Setup interval for time synchronization
Server	Setup time server address
Update Now	Update the time information from the NTP server immediately.

3-5.5 Mail Setup

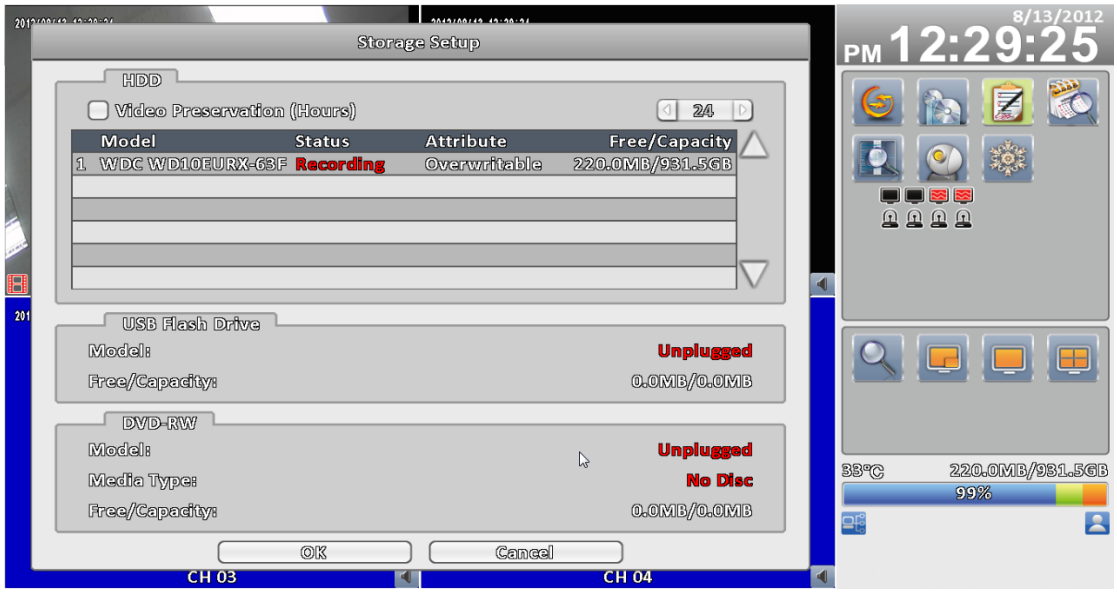
The Mail Setup tab controls the email-sending configuration when the DVR needs to send e-mail to specified users.



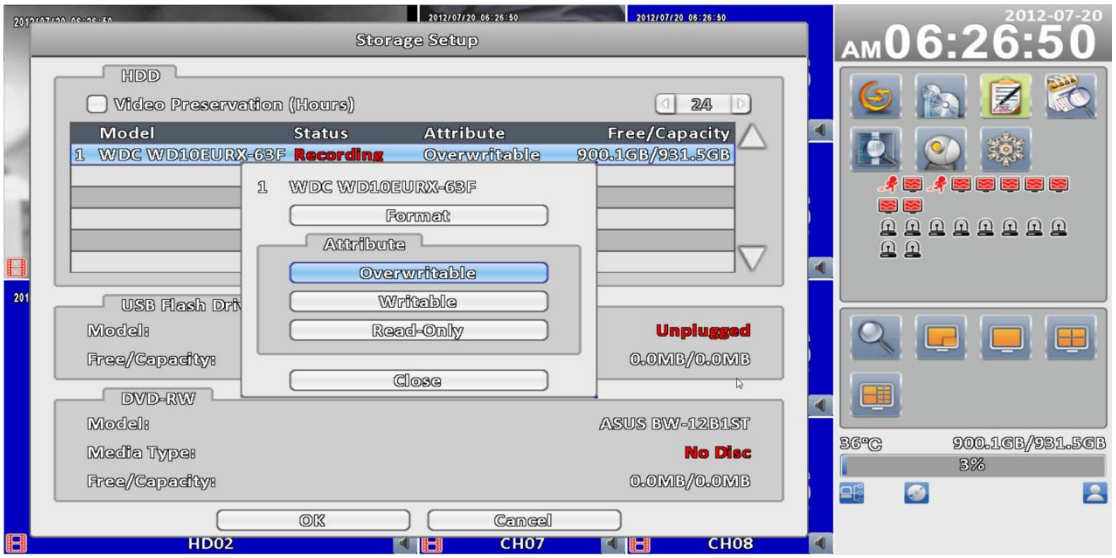
Item	Description
Enable	Check the box to enable/disable E-mal Notification function
SMTP Server	Set up SMTP Server name and port
User	Enter to set up the username.
Password	Enter to set up the password.
Sender's e-Mail	Enter to set up e-mail address of the sender.

3-6 Storage Setup

3-6.1 HDD Setup

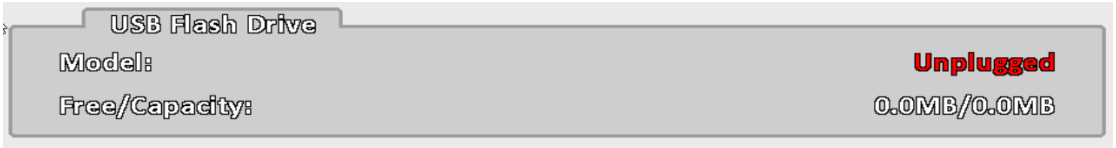


※ Click the status bar to change the attributes of the hard disk



Item	Description
Video Preservation (Hours)	Setup the video preservation period. Recorded video will be deleted automatically after expiry of preservation period.
Format	All the data on the hard drive will be deleted and the hard drive will be formatted into a proprietary format.
Model	Display HDD model
Status	Display HDD status (Recording/Error)
Attribute	Display HDD Attribure (Overwritable/Writable/Read-Only)
Free/Capacity	Didplay HDD capacity (Free/Capacity)

3-6.2 USB Flash Derive Setup

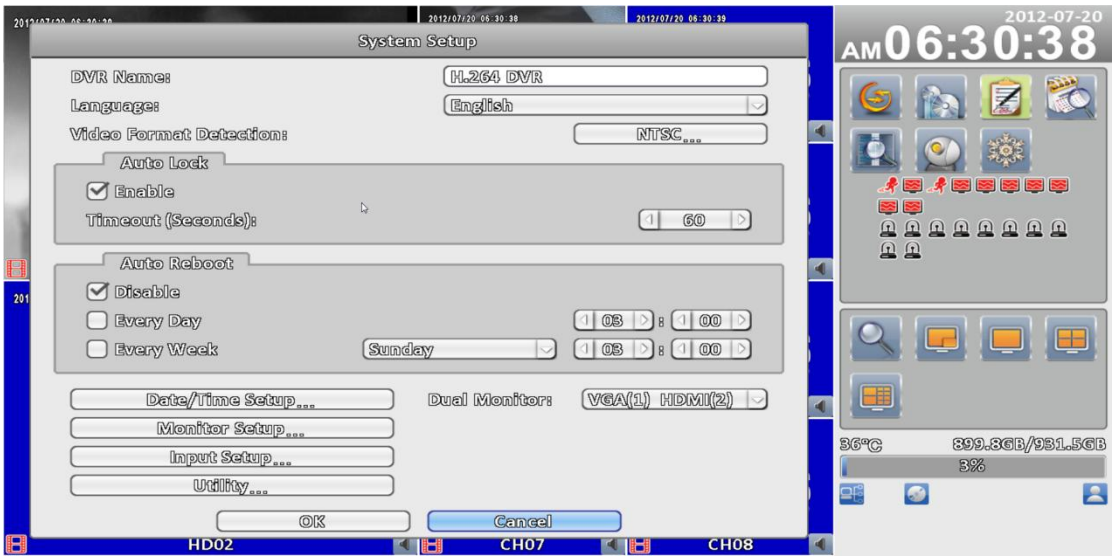


Item	Description
Model	Display USB flash drive model
Free/Capacity	Didplay USB flash drive capacity (Free/Capacity)

3-6.3 DVD-RW Setup

Item	Description
Model	Display DVR-RW model
Media Type	Display disk type
Free/Capcaity	Didplay DVR-RW capacity (Free/Capacity)

3-7 System Setup



Item	Description
DVR Name	The name of DVR to be shown while users login from remote site.
Language	Specify the OSD language.
Video Format Detection	Specify the format of video signal (auto-detect, NTSC, PAL). The configuration requires DVR reboot to take effect

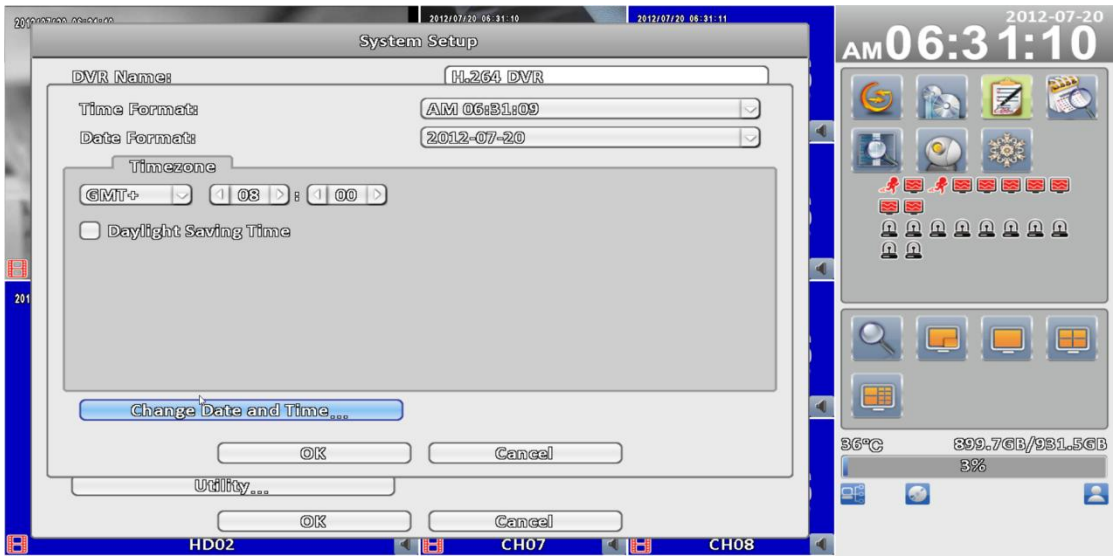
3-7.1 Auto Lock

Item	Description
Enable	Enable/disable Auto Lock
Timeout（Seconds）	Set the number of seconds to wait. It there is no action, the panel will be automatically locked and the DVR logs out current user. When DVR logs out automatically, it only supports basic operations, such as picture freezing, picture, zoom, auto switch channel, screen-split. To enter the setup menu, search menu, backup menu, status query, playback, and other operations, users need to input the username and password to login in. Available timeout value is from 10 to 9999 seconds

3-7.2 Auto Reboot

Item	Description
Disable	Enable/disable Auto Reboot.
Every day	Setup the time of daily auto-reboot.
Every Week	Setup the time of weekly auto-reboot.

3-7.3 Date/Time Setup



Item	Description
Hour Format	12HOURS/ 24HOURS
Date Format	MM-DD-YY/DD-MM-YY/YY-MM-DD

3-7.3.1 Timezone

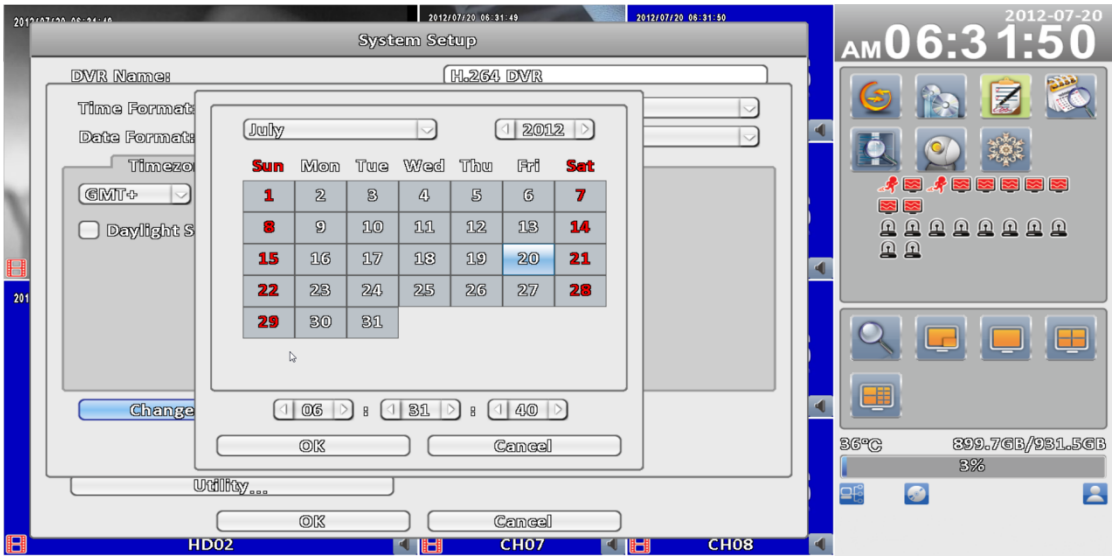
Item	Description
Time Zone Setup	Set up the time zone of the DVR, from GMT - 13 ～ GMT+ 13。
Daylight Saving Time	Enable/disable Daylight Saving Time

3-7.3.2 Daylight Saving Time Setup

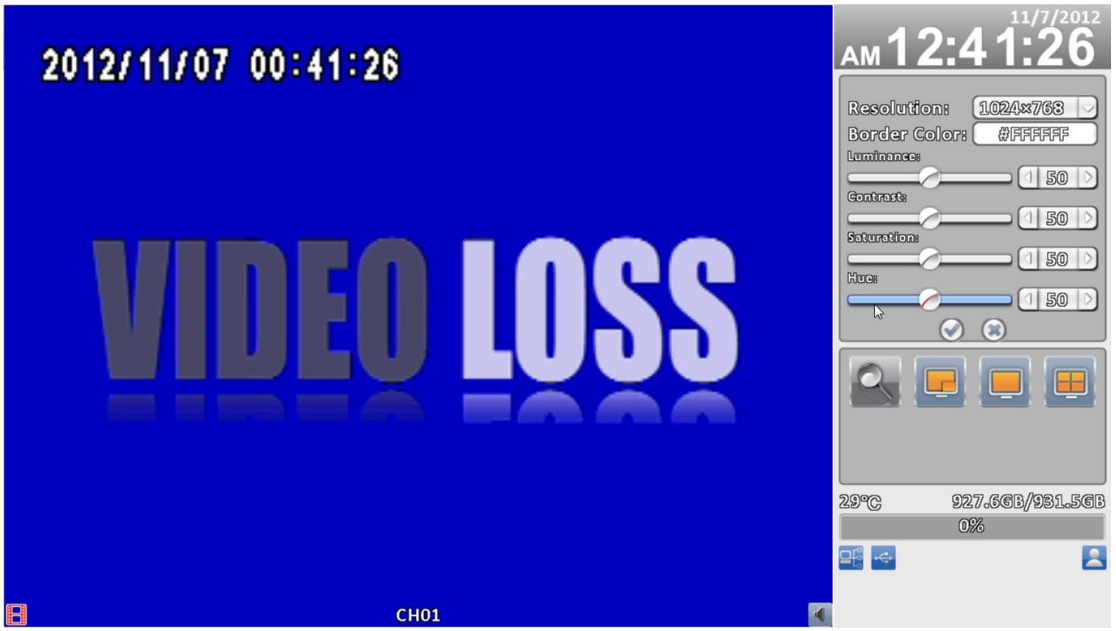
Item	Description
Beginning	Setup the beginning time of Daylight Saving Time.
Ending	Setup the ending time of Daylight Saving Time.

3-7.3.3 Change Date and Time

Setup date and time of the DVR.



3-7.4 Monitor Setup



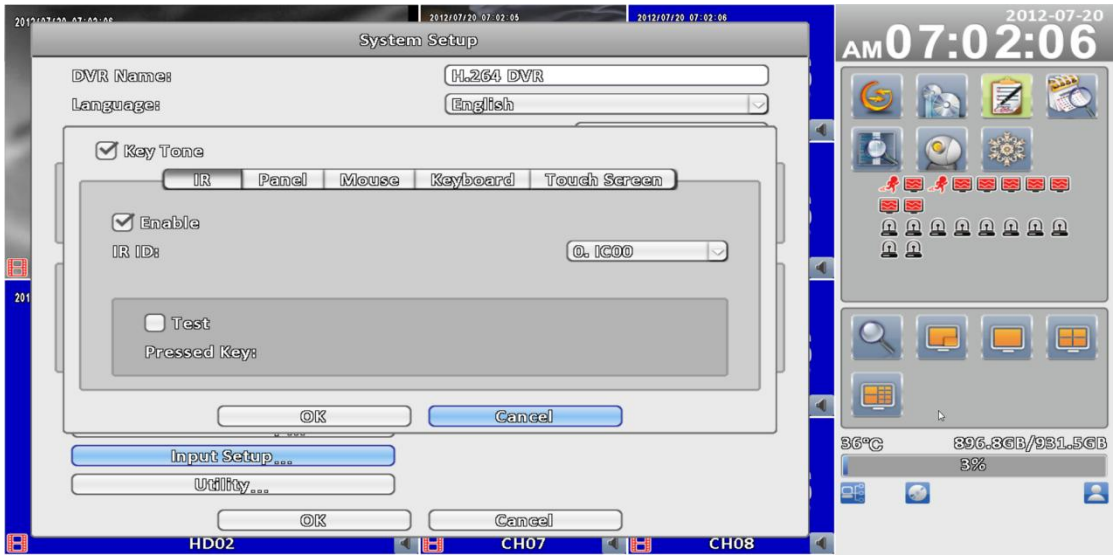
16：9 monitor setup

Item	Description
Resolution	Setup resolution
Border Color	Setup border color
Luminance	Setup screen luminance form 0 to 100

Contrast	Setup screen contrast form 0 to 100
Saturation	Setup screen saturation form 0 to 100
Hue	Setup screen hue form 0 to 100

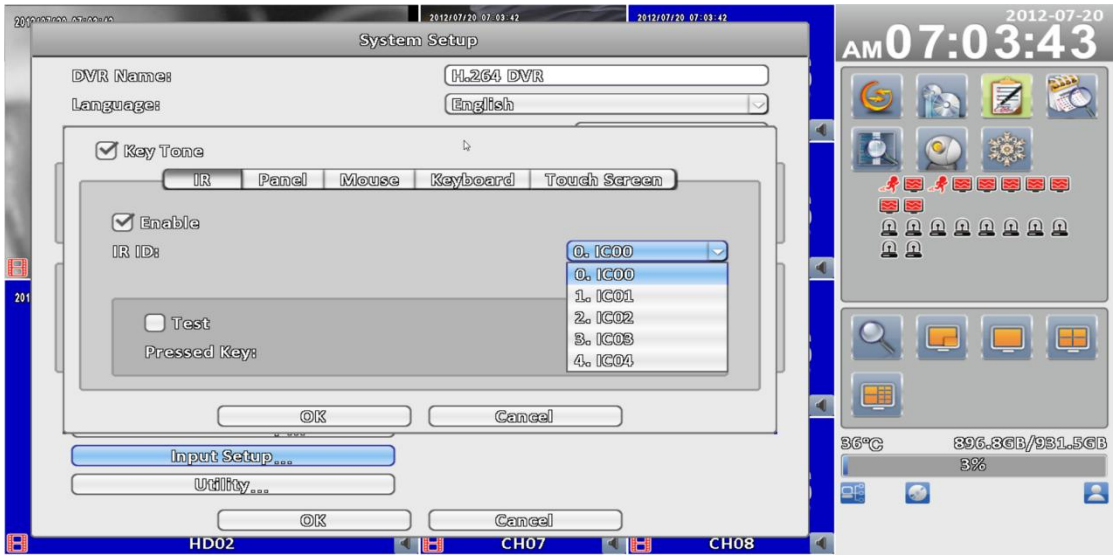
3-7.5 Input Setup

The Input Setup allows users setup input device (Key Tone, Remote control, Panel, Mouse, Keybord, Touch screen).



Item	Description
Key Tone	Enable/disable Key Tone

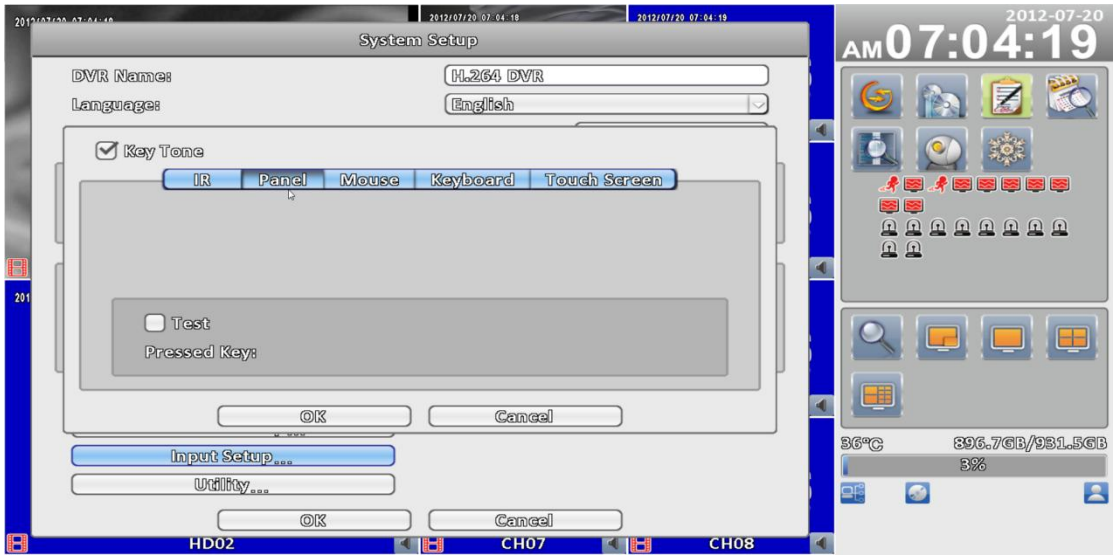
3-7.5.1 Remote Control Setup



Item	Description
Enable	Enable/disable remore control.
IR ID	Default ID is 0. DVR is controlled by standard remote control; For one to

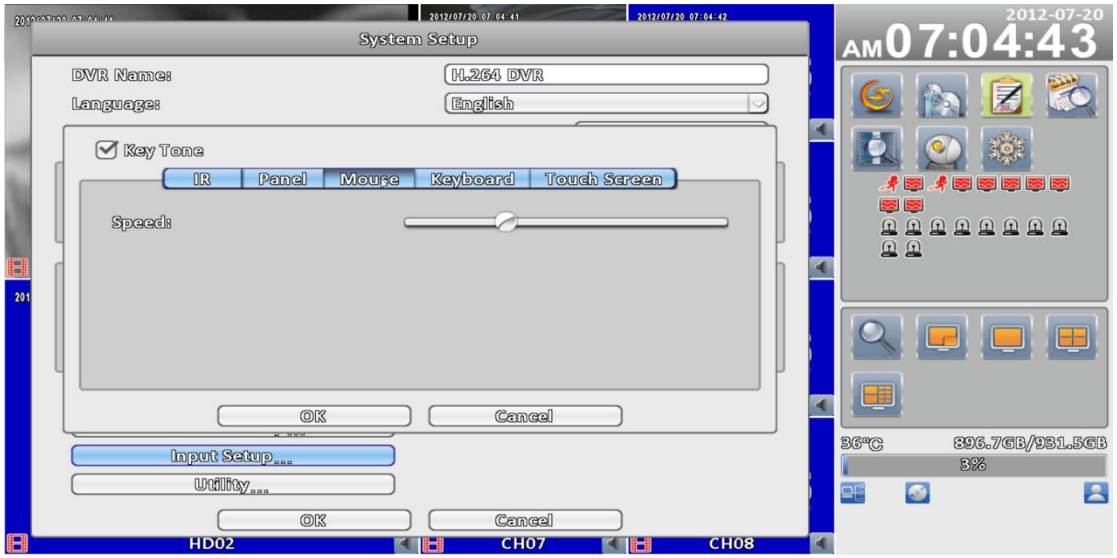
	many remote control, remote control on the number corresponding to theDVR numbers (DVR1 → IC01, DVR2 → IC02).
Test	Enable/Disable test function.
Pressed Key	Display pressed key information.

3-7.5.2 Panel Setup



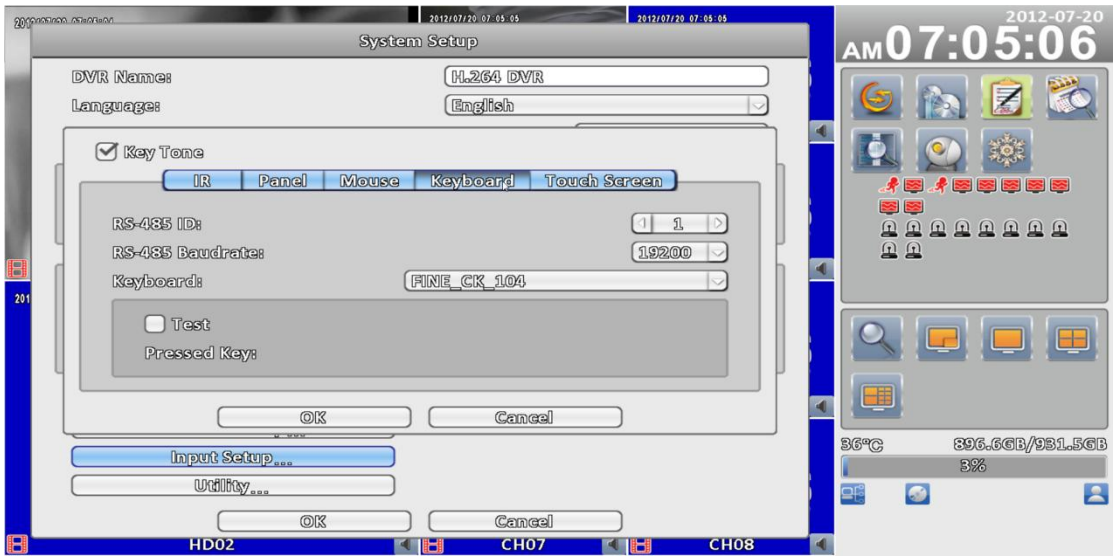
Item	Description
Test	Enable/disable panel button test function.
Press Key	Display information of the pressed key.

3-7.5.3 Mouse Setup



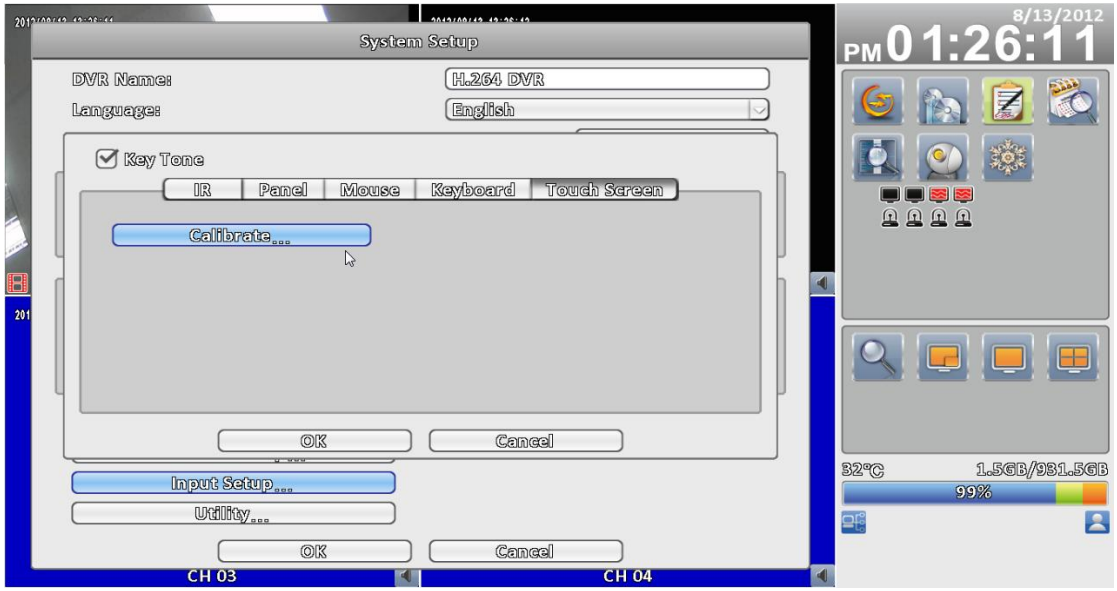
Item	Description
Speed	Setup the mouse cursor speed. The right side of the slider means faster mouse speed. (Only valid for local configuration)

3-7.5.4 PTZ Keyboard Setup



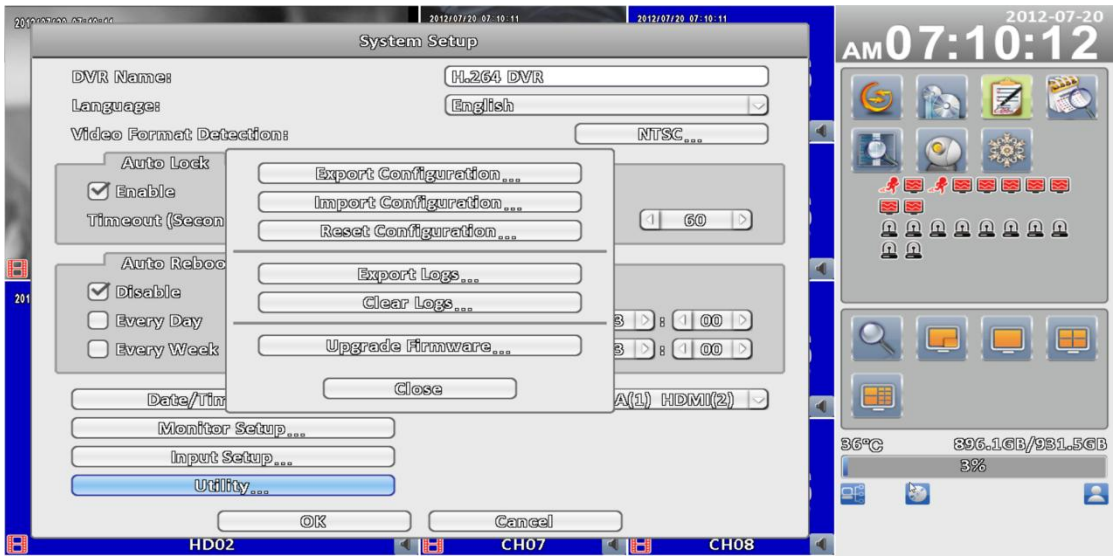
Item	Description
RS-485 ID	RS-485 ID, valid values range from 1 to 64
RS-485 Baudrate	RS-485 Baudrate from 2400, 4800, 9600, 19200
Keyboard	Select PTZ Keyboard
Test	Enable/Disable keyboard test function
Press Key	Display press key information

3-7.5.5 Touch Screen Setup



Users can calibrate the touch screen which needs recalibration.

3-7.6 Utility Setup

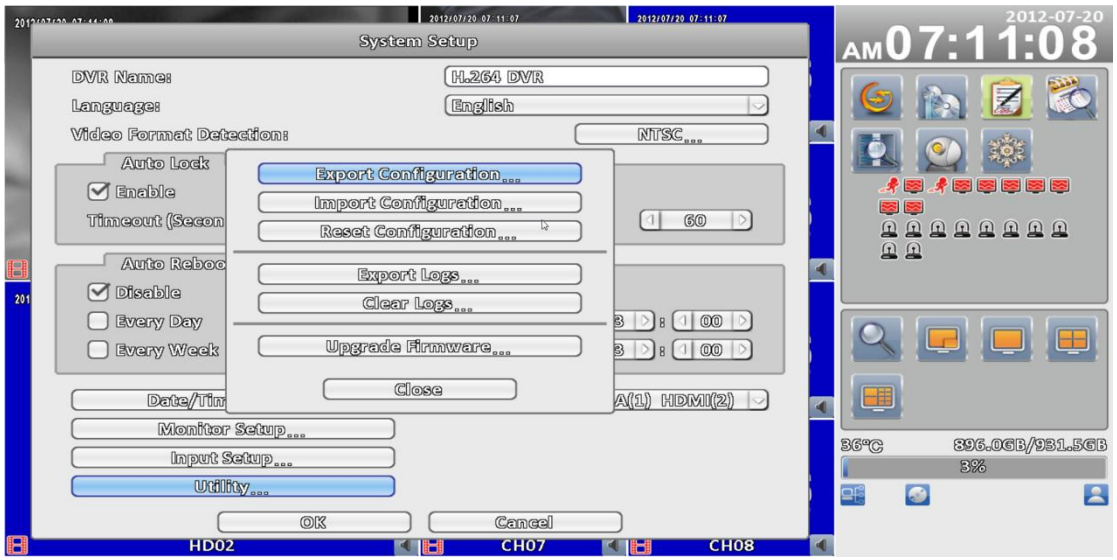


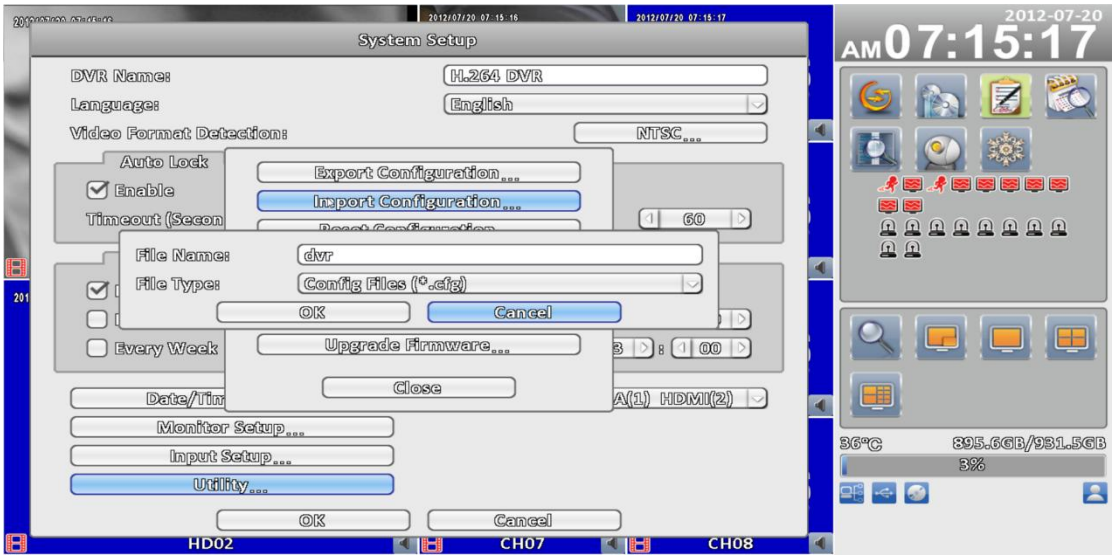
Item	Description
Export Configuration	Export DVR configuration to a USB flash drive or a remote PC.
Import Configuration	Import configuration from a USB flash drive or a remote PC to DVR.
Reset Configuration	Reset system configuration.
Export Logs	Save DVR system log to a USB flash drive or a remote PC.
Clear Logs	Clear all DVR system log .
Upgrade Firmware	Upgrade DVR firmware through a USB drive. Please stop recording and backup DVR configuration before up-grading **System will reboot automatically when the upgrade is done.**

3-7.6.1 Export Configuration

There are several options for target storage of DVR configuration.

a. Export to a USB Flash Drive: The default filename is “dvr.cfg”

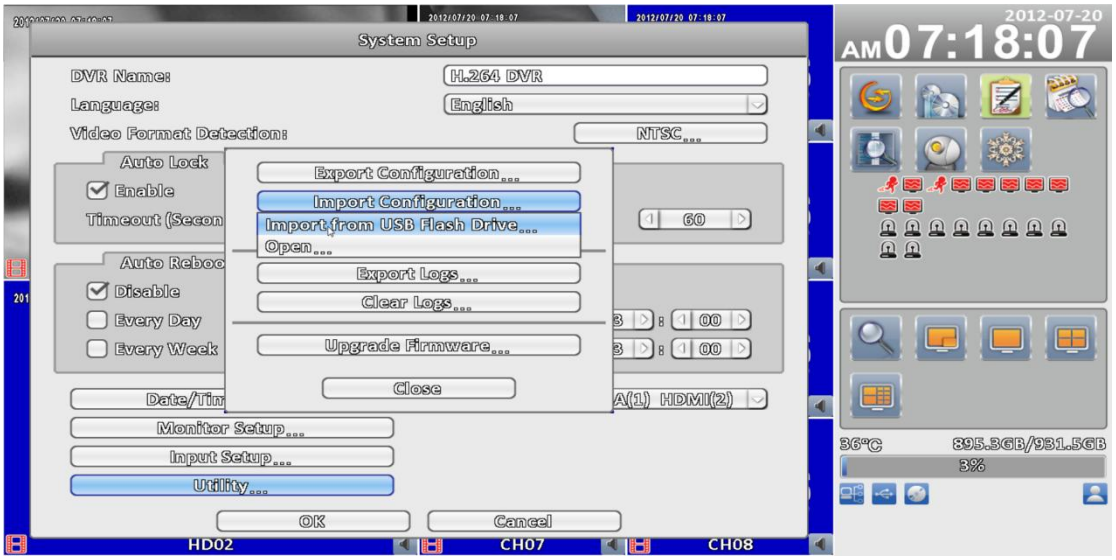


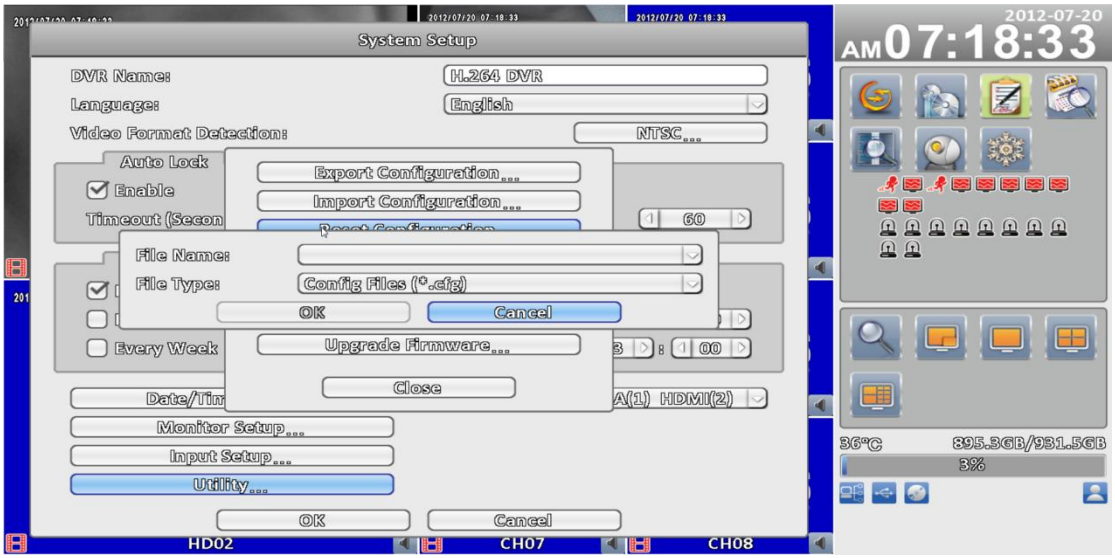


3-7.6.2 Import Configuration

Import configuration to the DVR from a USB drive or a remote computer.

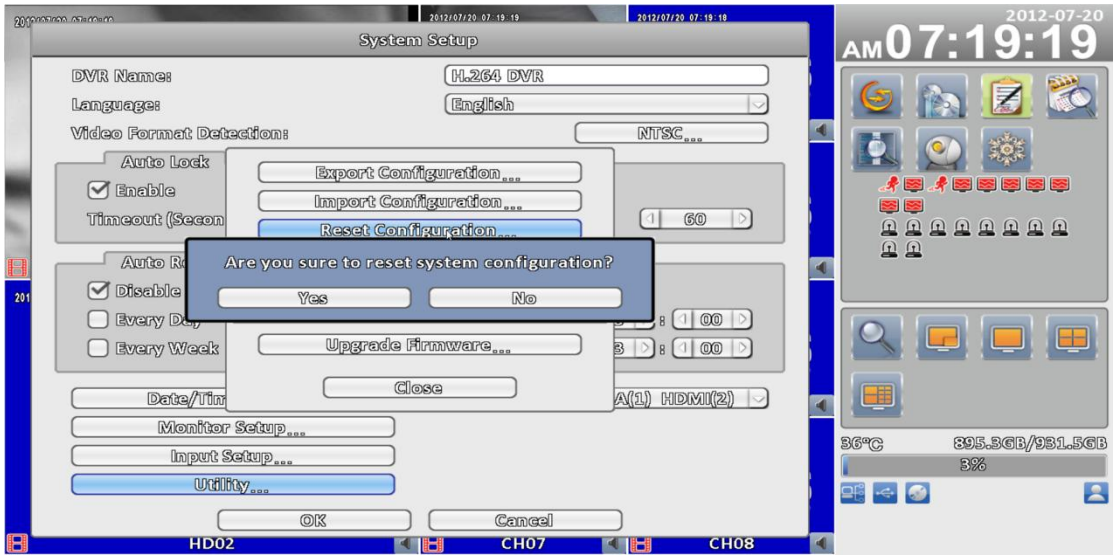
a. Import from USB Flash Drive: Import the configuration from a USB flash drive.




System Setup
DVR Name:
H.264 DVR
Language:
English
Video Format Detection:
NTSC
Auto Lock
Enable
Timeout (Secon
60
Export Configuration...
Import Configuration...
File Name:
File Type:
Config Files (*.cfg)
OK
Cancel
Every Week
Upgrade Firmware...
Close
Monitor Setup...
Input Setup...
Utility...
OK
Cancel
HD02
CH07
CH08
2012-07-20
AM07:18:33
36°C
895.3GB/931.5GB
3%

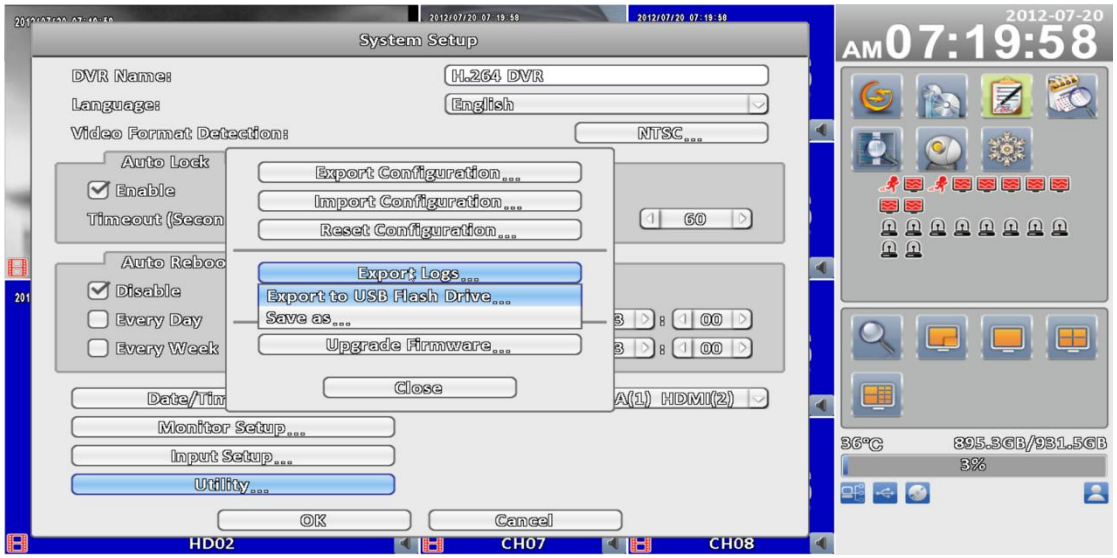
3-7.6.3 Reset Configuration

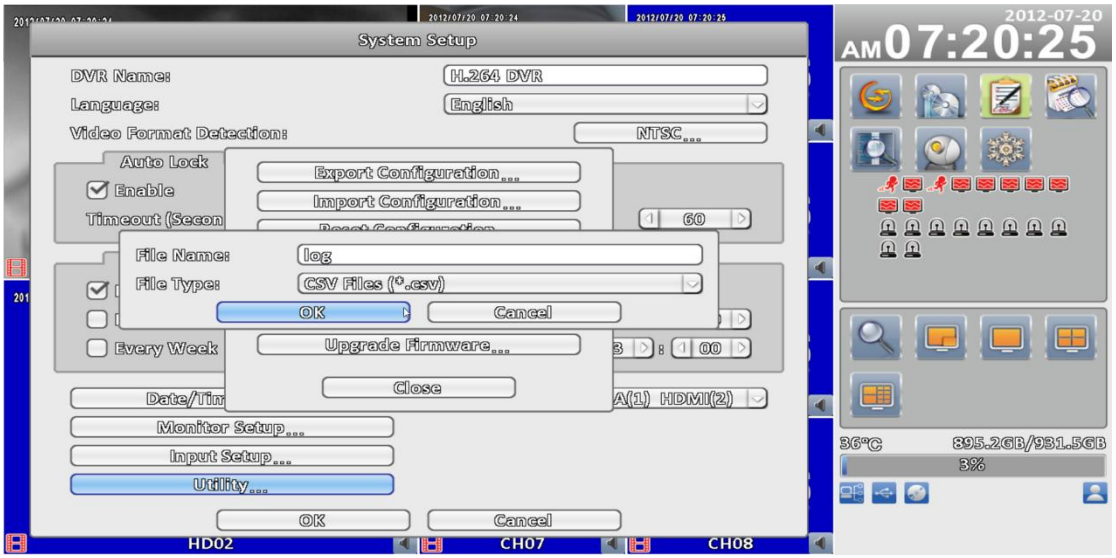
Reset the DVR to default settings.



3-7.6.4 Export Logs

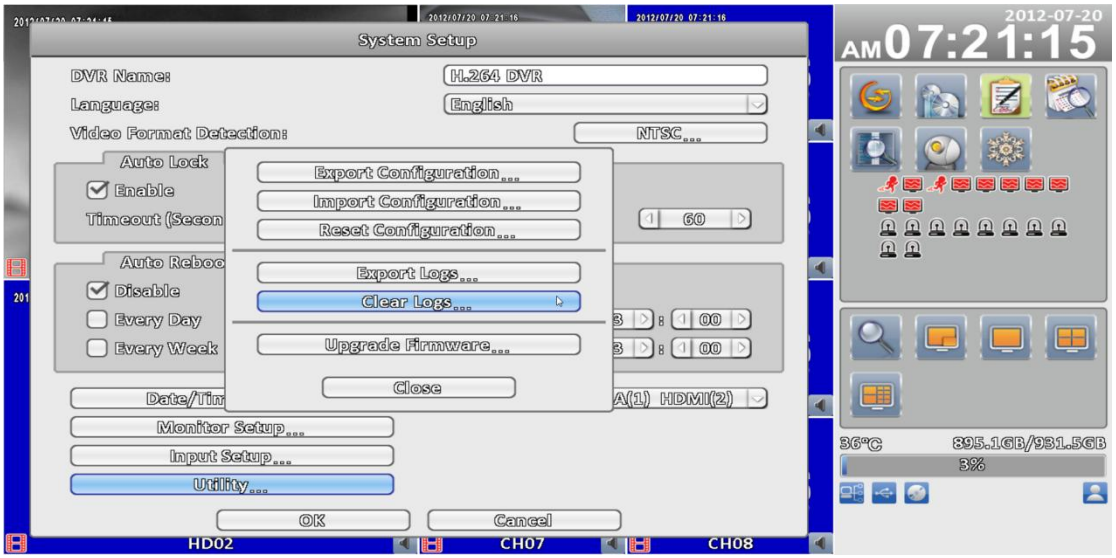
a. Export to USB Flash Drive: Export logs to a USB flash drive. The default file name is “log.csv”

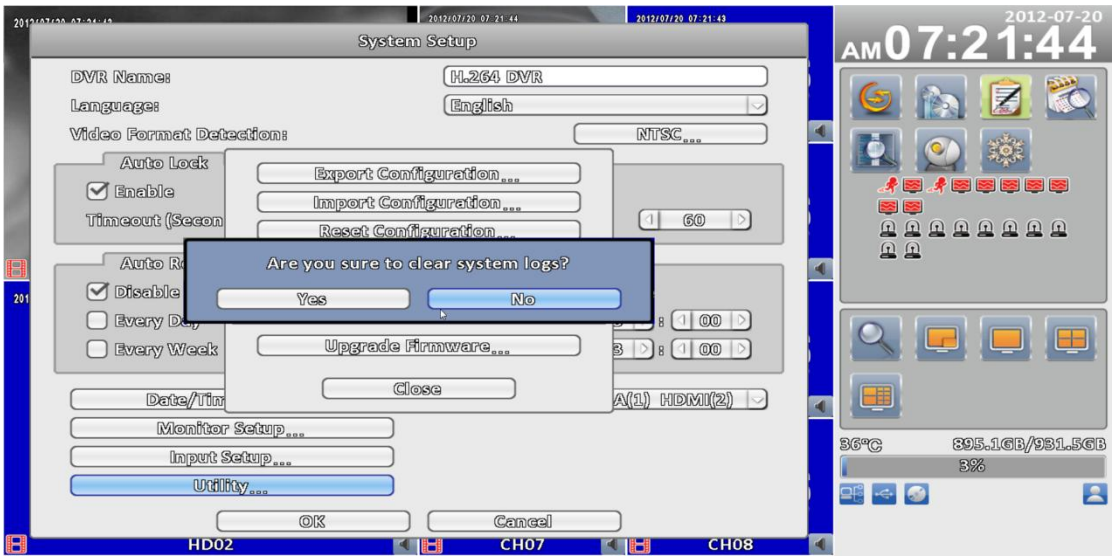




3-7.6.5 Clear Logs

Clear the system logs.

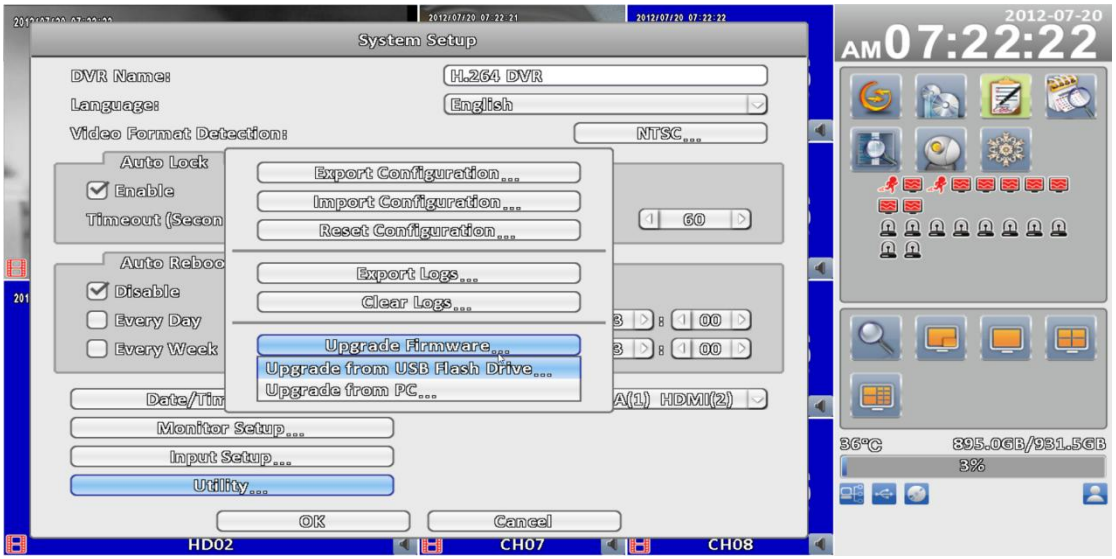


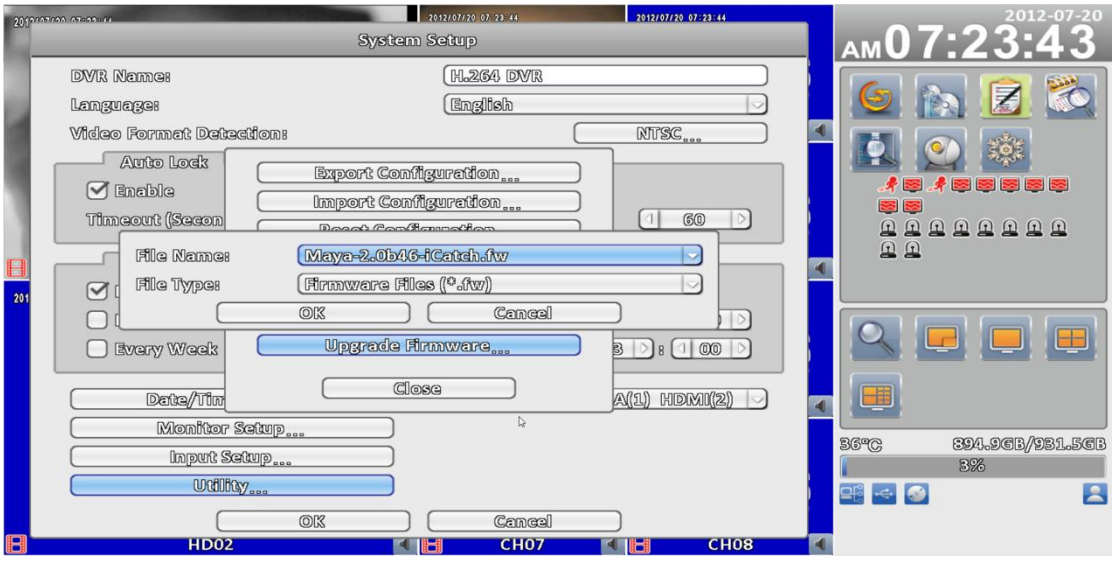


3-7.6.6 Upgrade Firmware

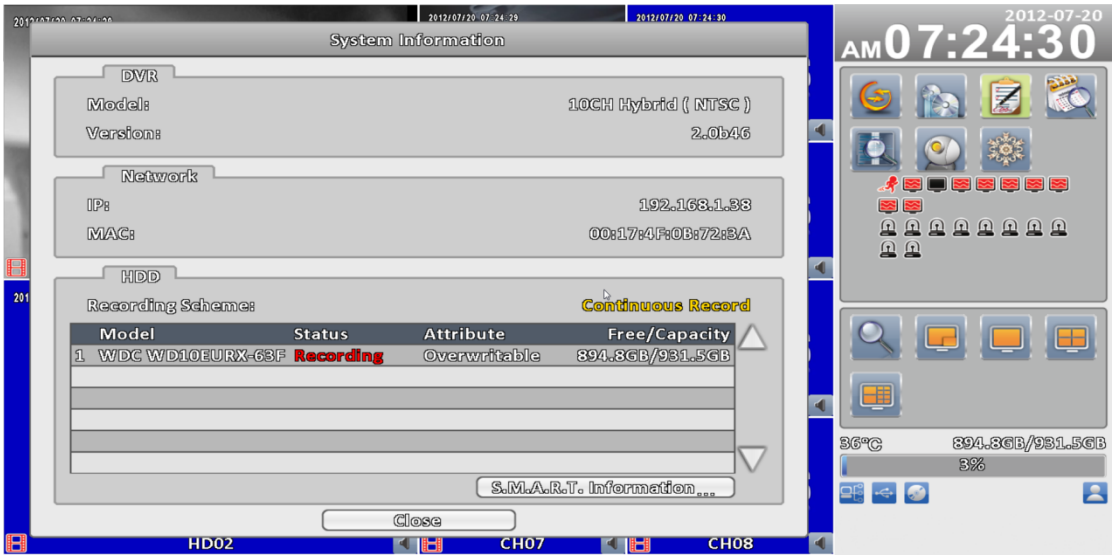
Notice! DO NOT TURN OFF POWER OR UNPLUG USB DEVICE DURING THE UPGRADE because that may cause incomplete firmware upgrade and damage the DVR.

a. Upgrade from USB Flash Drive...: Choose the firmware from USB flash drive to upgrade





3-8 System Information



3-8.1 DVR Information

Item	Description
Model	DVR model name and video type
Version	DVR firmware version

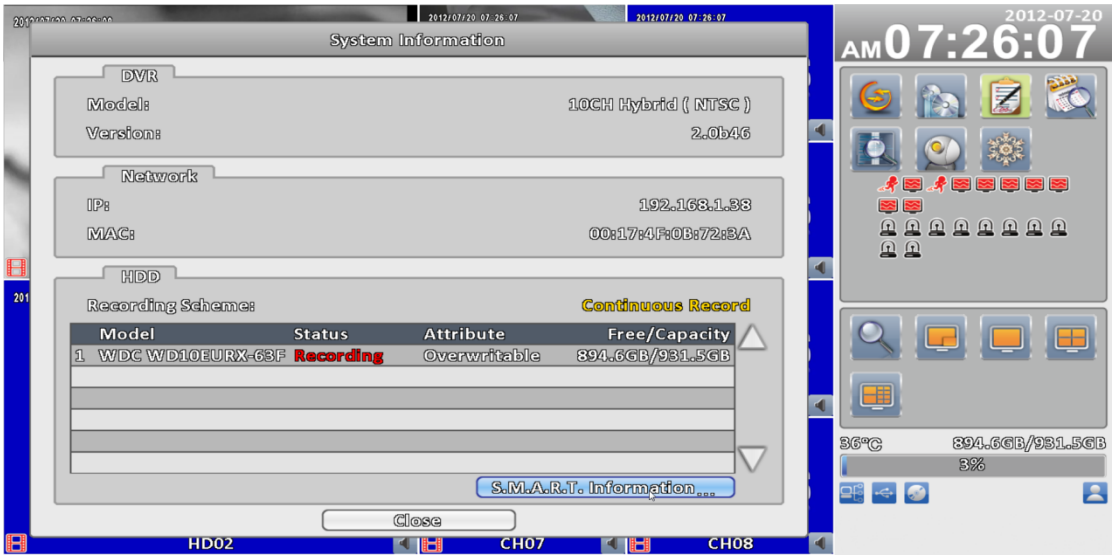
3-8.2 Network Information

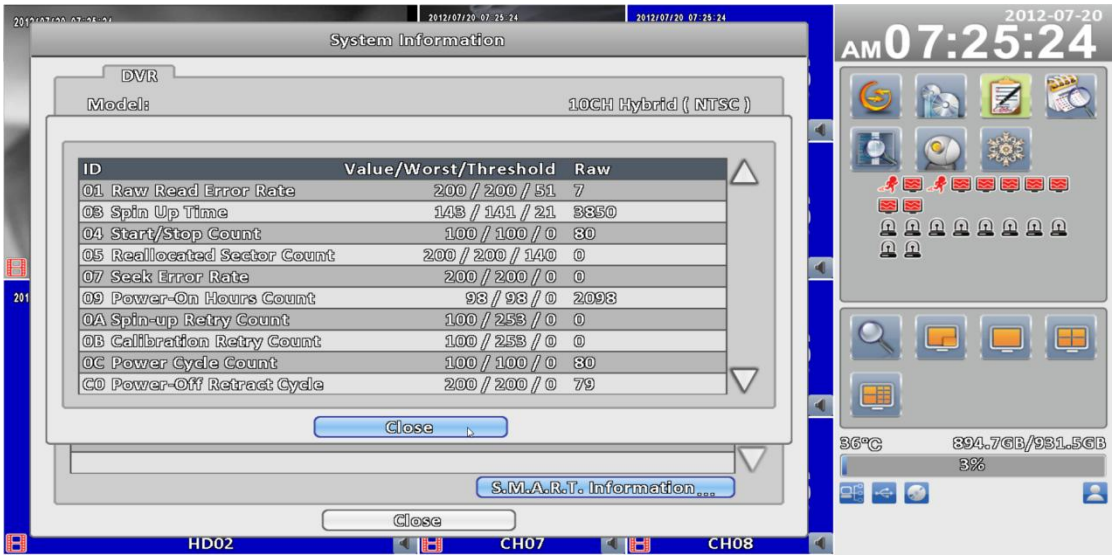
Item	Description
IP	DVR IP address If there is no network connection, it will show "Network is not connected.
MAC	The DVR MAC address

3-8.3 HDD Information

Item	Description
Recording Scheme	Display installed HDD recording type
Model	Display installed HDD model
Status	Display installed HDD recording status
Attribute	Display installed HDD attribute (Overwritable/Writable/Read-Only)
Capacity	Display installed HDD capacity (Free/Capacity)

3-8.4 S.M.A.R.T Information





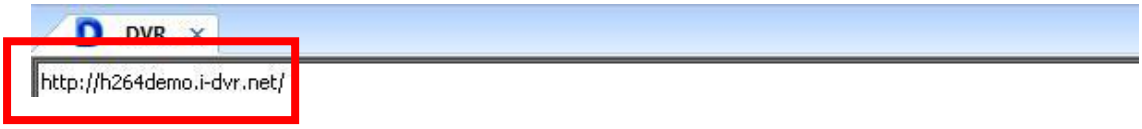
Chapter 4 REMOTE SOFTWARE IN-STALLATION and SETUP

The DVR allows users remotely access and control the DVR from a PC by 「iWatchDVR」or IE v6.0 or above.

p.s. The DVR currently supports Windows XP SP2 or above and Windows Vista, Windows 7.

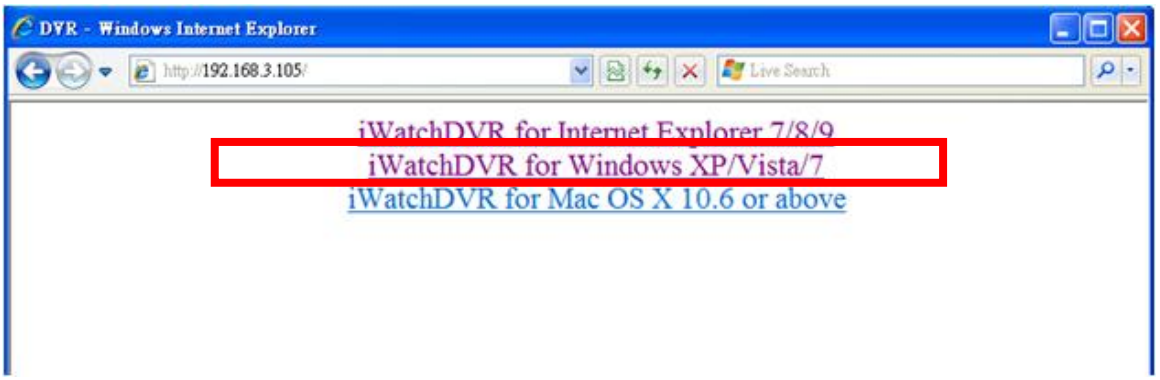
4-1 Application Software Connection

Step 1：Enter the IP address of DVR in IE browser.



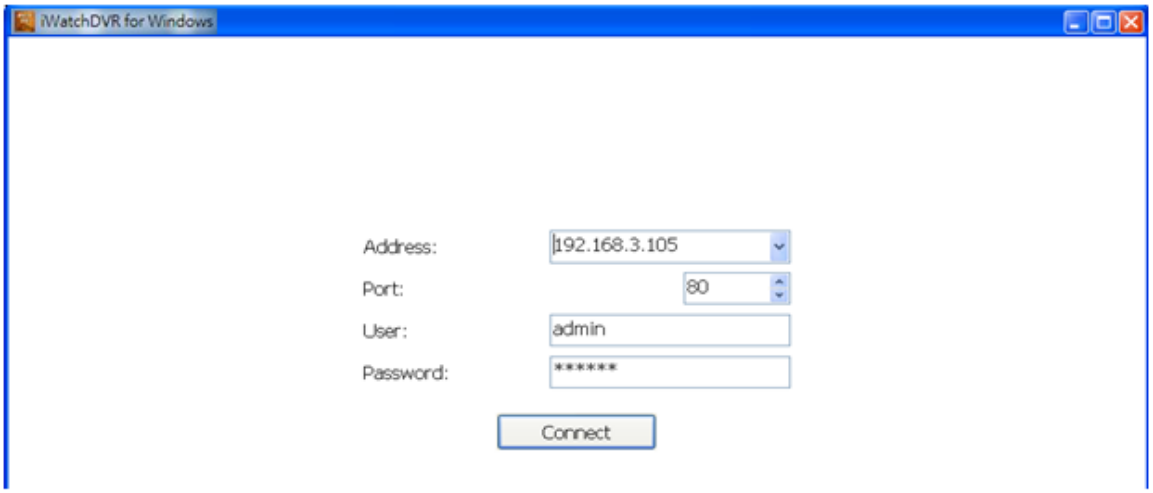
Step 2：Windows as below will show up. Please enter the user name and password. Default user name and password is **admin/123456**. Other related setup about user account and password, please check the section **"Account Setup**. "

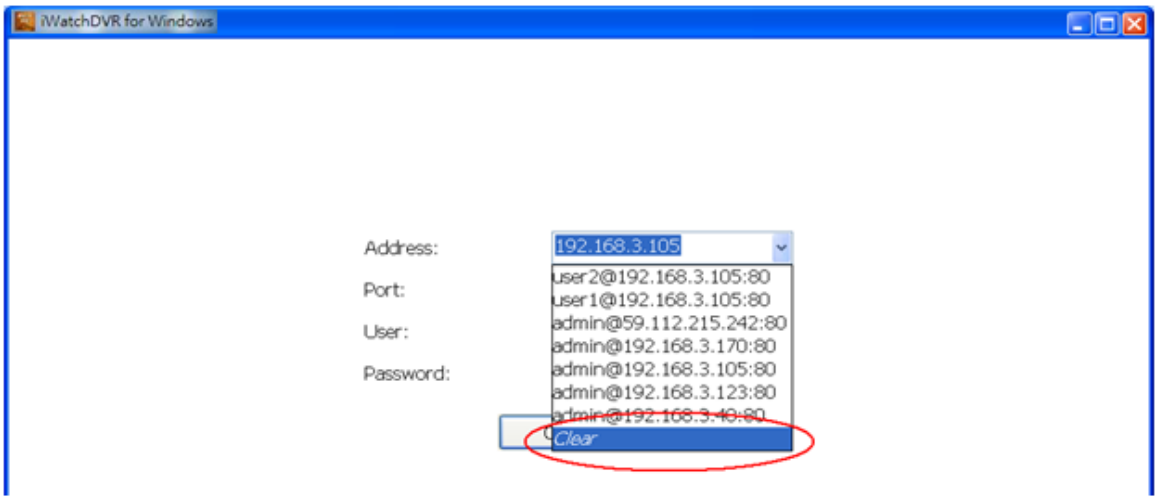
Step 3：Click on the link "**iWatchDVR for Windows XP/Vista/7"** to start downloading the AP software.


DVR - Windows Internet Explorer
http://192.168.3.105/
Live Search
iWatchDVR for Internet Explorer 7/8/9
iWatchDVR for Windows XP/Vista/7
iWatchDVR for Mac OS X 10.6 or above

Step 5：The program can be run directly, or save the program to the remote PC and execute later. If you choose to run the software, Start window will be shown up. Please enter information of login DVR: IP, Port, Username and Password.

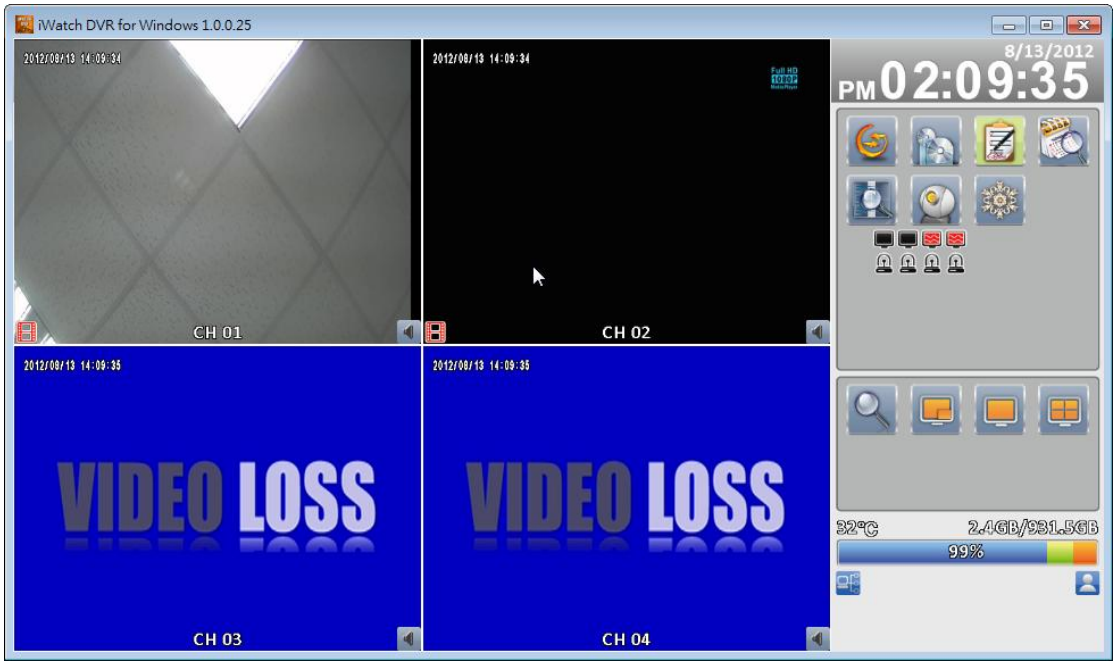
File Download - Security Warning
Do you want to run or save this file?
Name: iWatchDVR.exe
Type: Application, 82.0KB
From: h264demo.i-dvr.net
Run
Save
Cancel
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?





The drop-down menu can be used to record IP address. Press “Clear” to clear IP address.

Step 6：You’ve logged into the DVR



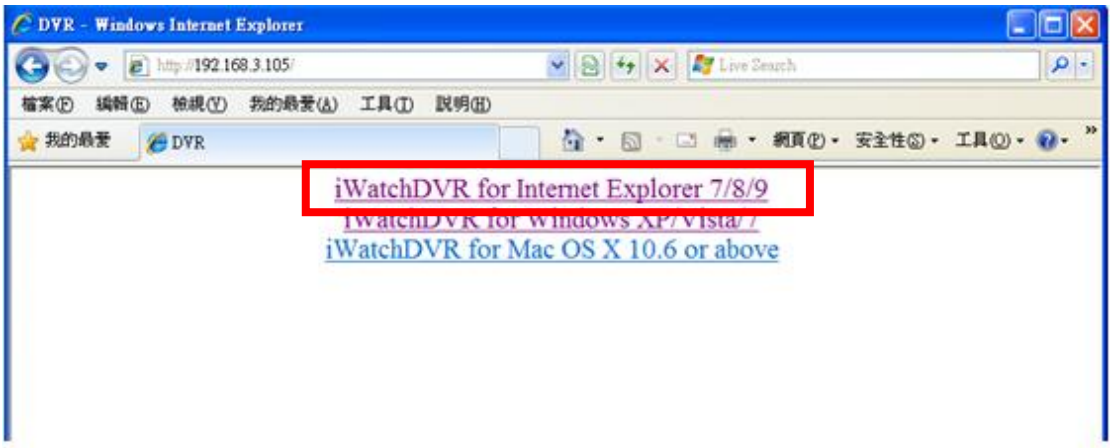
4-2 IE Connection

Step 1：Enter the IP address of DVR in IE browser. The address appeared in this image is only for demonstration. Actual address is depending on the setup of on-site DVR

Step 2：Windows as below will show up. Please enter the user name and password. Default

user name and password is **admin/123456**. Other related setup about user account and password, please check **"Account Setup**. " The user name and password appeared in this image is only for demonstration. Actual user name and password depend on the setup of on-site DVR.

Step 3：Click on**" iWatchDVR for Internet Explorer 7/8/9 ".**



p.s. There will be IE connection security issue when clicking this link for the first time. Please refer to index III for Remote Monitoring IE ActiveX Control Installation Instruction.

Step 4：DVR images appear.◦Default is 16:9 display.

4-3 AP Software and IE Connection Operation

Table 4-3.1 System Requirements

CPU	Intel Pentium 4 above
OS	Microsoft Windows 7, Windows Vista, Windows XP SP2 above
RAM	512M above
VGA Card	Needed to support DirectX9.0 (Above) Note 1
Anti-virus soft-ware (firewall)	The TCP destination port 80 should be available.
Others	DirectX 9.0 above

Note 1:
Known VGA card that support DirectX9.0 currently:
NVIDIA: Geforce FXseries, Geforce 6series, Geforce 7series, Geforce 8series, Geforce 9series, Geforce 200series, etc.
Or visit: http://en.wikipedia.org/wiki/Comparison_of_Nvidia_graphics_processing_units
ATI: Radeon R300series, Radeon R400series, Radeon R500series, Radeon R600series, Radeon R700series, Radeon HD 3xxx IGPseries, Mobility Radeonseries (9500 above), Mobility Radeon Xseries, Mobility Radeon HDseries, or FireGL Vseries etc.
Or visit: http://en.wikipedia.org/wiki/Comparison_of_ATI_graphics_processing_units
SiS: SiS 67Xseries, or SiS 77Xseries etc.
Or visit: http://www.sis.com/support/support_compare.htm
Intel: 91Xseries, 94Xseries, 96Xseries, G3Xseries, or G4Xseries, etc.
Or visit: http://en.wikipedia.org/wiki/Intel_GMA